

USPS Oxbow

Construction

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**Hazardous Materials Investigation
at the Oxbow Corporate Park,
Tukwila, Washington**

**Submitted To: United States Postal Service
Major Facilities Office
255 North Humphrey's Boulevard
Memphis, Tennessee 33086-0336**

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DFT 002297

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The United States Postal Service (USPS) has retained ICF Kaiser Engineers, Inc. (ICF Kaiser) to conduct a Hazardous Materials Investigation at the Oxbow Corporate Park in Tukwila, Washington. The investigation was conducted to identify past business practices at the site that may have impacted the site or site structures. Specifically, the investigation attempted to characterize the site for hazardous material contamination. The USPS has initiated the survey to determine if the site will be used as a USPS facility. The investigation included historical document and aerial photograph research, a site inspection, sampling and analyses of areas of concern, and a survey and sampling of potential asbestos-containing material.

1. HISTORICAL BACKGROUND

The property that contains the Oxbow Corporate Park was farmland before being used for a variety of businesses beginning in 1960. Fill material from the Duwamish waterway was used to backfill areas at the site. The land where the Oxbow Corporate Park is located is divided into three parcels. Parcels A and B were leased in 1970 to Paccar, a commercial vehicle manufacturing company. The parcels leased to Paccar contained a test track for trucks. Areas of the two parcels not occupied by the test track were leased to Future Resources, Inc. which used the area as a salvage yard for construction debris, such as concrete and brick. In 1983, Future Resources sublet space to Dove Supply Company. Dove Supply salvaged construction equipment and heavy machinery at the site. In 1987 the current site structures, Buildings 250 and 252, were constructed and leased to the Boeing Aerospace Company.

2. SITE BACKGROUND

The Oxbow Corporate Park is located west of the Duwamish River, south of Seattle, in Tukwila, Washington. The site is adjacent to West Marginal Way and South 102nd Street. A site location map is presented in Figure 1. The 30-acre site is zoned M-2, heavy industrial, by the city of Tukwila. Three buildings, with a total area of 521,000 square feet, are present at the site. The buildings reviewed for this investigation were buildings 250 and 252. The corporate park was constructed in 1987. A site plan of the Oxbow Corporate Park is presented in Figure 2.

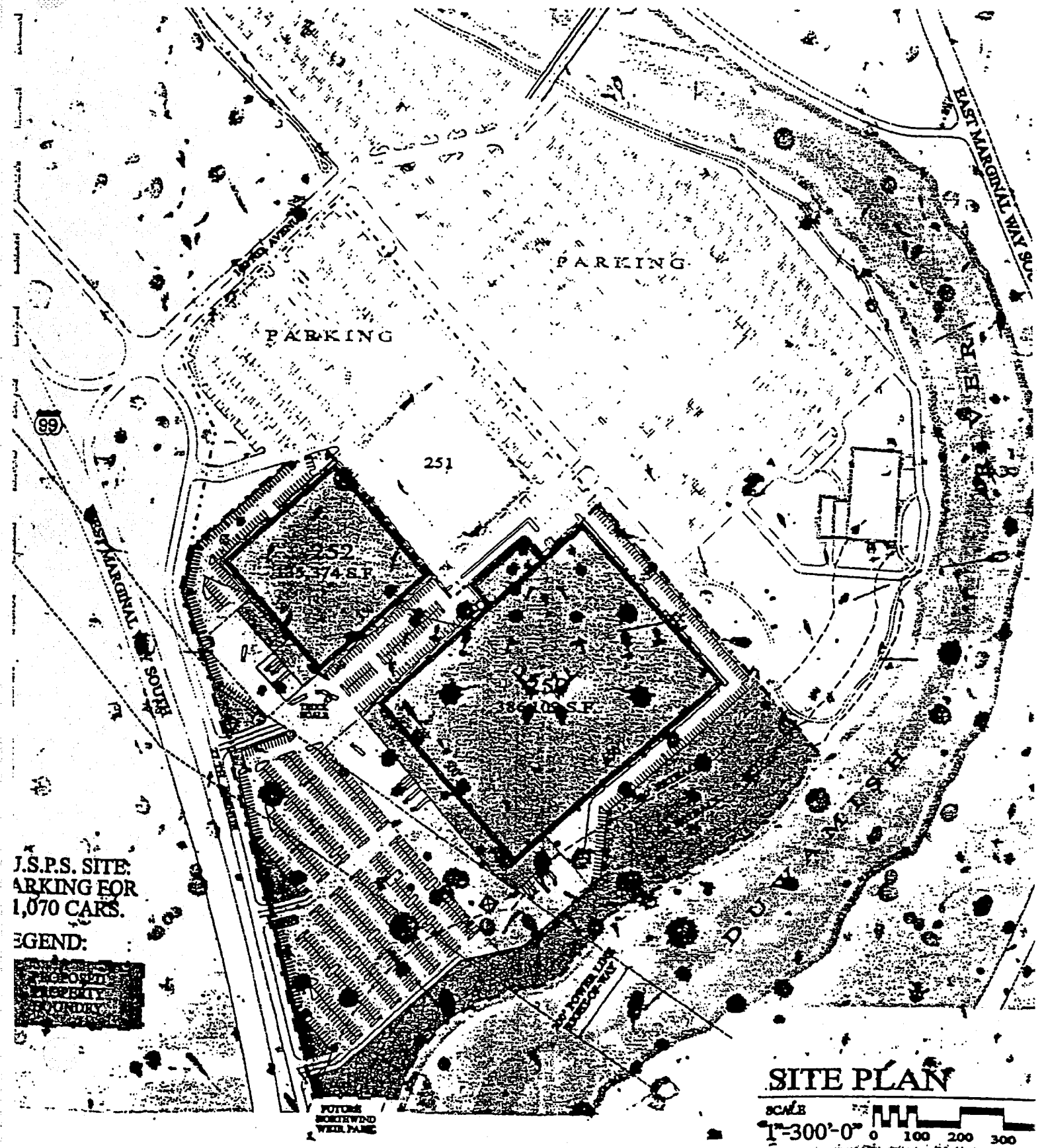
3. PAST AND CURRENT USAGE OF ADJACENT PROPERTIES

ICF Kaiser conducted a review of state, federal, and local agency databases to identify any business or properties within one mile of the Oxbow Corporate Park. The search ascertained the status of adjacent properties with regard to hazardous materials use, storage, and disposal. ICF reviewed the sites to determine if any current or historical activities at adjacent properties may potentially have an impact upon the Oxbow Corporate Park. Leaking underground storage tanks (LUSTs) constituted most of the concerns identified from the state file reviews. One of the eleven LUST sites identified, the Chevron station at 10805 East Marginal way South, is approximately 1/8 of a mile from the Oxbow Park.

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This is a detailed street map of Seattle, Washington. The map shows the city's grid system, including major streets like Broadway, Pike Street, and Pike Avenue. It also shows the city's proximity to Lake Washington and the surrounding suburbs. A red arrow points to a specific location in the city, labeled "SITE LOCATION". The map includes labels for various streets, landmarks, and geographical features. The city's name, "SEATTLE", is prominently displayed in the center. The map also shows the city's proximity to the Pacific Northwest and the surrounding regions.

FIGURE 2. SITE PLAN



Similarly, sites with LUSTs were the majority of sites listed on the state and municipal hazardous waste databases. The Chevron Station at 10805 E. Marginal Way South, approximately 1/8 of a mile southeast of the Oxbow site, was again identified. The LUST is believed to have no impact on the site, because it is downstream and across the Duwamish Waterway.

Northwest Auto Wrecking at 10230 East Marginal Way South, located approximately 0.25 miles northeast of the Oxbow Park, is on the State CERCLIS list for soils contaminated with cyanide metals. The Rhone-Poulenc Manufacturing Facility, approximately 1/2 mile from the Oxbow Park also has soils contaminated with cyanide. The Boeing Company Developmental Center adjacent to the Oxbow Park underwent a RCRA Facility assessment by the U.S. Environmental Protection Agency (EPA) in 1988. EPA reported that no further remedial actions are required for the site.

None of the facilities listed above appears to have potential to impact the Oxbow Park. The LUSTs, although numerous in the vicinity, are not likely to affect subsurface conditions at the Oxbow Park.

A complete listing of all sites identified on the state and federal databases is presented in Appendix A.

4. HAZARDOUS MATERIAL INVESTIGATION FOR BUILDING 250 AT THE OXBOW CORPORATE PARK

ICF Kaiser performed a hazardous materials investigation for Building 250 at the Oxbow Corporate Park in Tukwila, Washington. This investigation included a site inspection, a review of historical uses of the property, state and federal agency record review, and an asbestos survey of Building 250. The findings of this investigation are presented below.

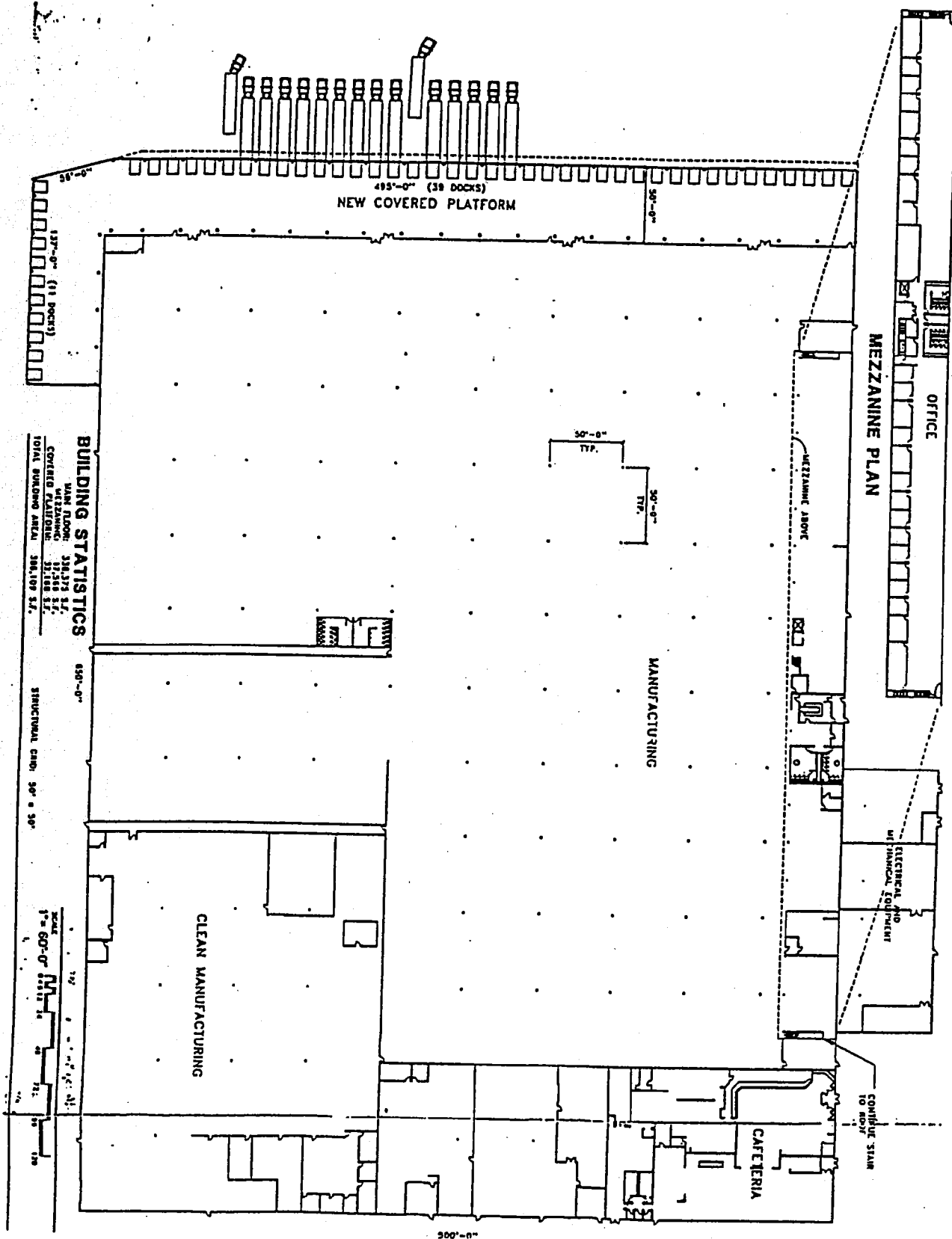
4.1. SITE BACKGROUND OF BUILDING 250

Building 250, constructed in 1987, contains approximately 386,100 square feet of work space. The building is single-story structure with a 17,000 square foot mezzanine for office space. It includes a 490-foot loading dock, a 15,000 square foot cafeteria, an electrical/mechanical room, and office space. The structure is constructed of concrete tilt-up walls and 5-inch concrete slab floor. The main floor of the building is illuminated by metal halide lighting, and has a minimum height clearance of 26 feet. The building is supplied with heat, ventilation, and air conditioning (HVAC). Walls, ceilings, and miscellaneous materials in the building were characterized for asbestos-containing materials (ACMs) and lead-based paint. Drinking water at the building was tested for lead by sampling the drinking water taps. Electrical transformers and light ballasts were inspected for polychlorinated biphenyl (PCB) content. Ambient air monitoring was conducted for the exterior and interior of the structure.

4.2. SITE INSPECTION

A site inspection was conducted at Building 250 on September 21, 1995. The site inspection was completed by Robert Taaffe of ICF Kaiser. Mr. Taaffe was accompanied by Mr. Ken Stickly, Oxbow Park Property Manager, of the Sabey Corporation. Building 250 is vacant, but is supplied with power and utilities. A floor plan for Building 250 is presented in Figure 3.

FIGURE 3. FLOOR PLAN FOR BUILDING 250



General conditions of the building are good to excellent. Structural inspection and determination of the structural integrity of the building are beyond the scope of this report.

4.3. HISTORICAL HAZARDOUS MATERIAL USAGE AND DISPOSAL

The Boeing Aerospace Company was a tenant at Building 250 from 1987, when the structure was constructed, until vacating the building in 1994. The Boeing Aerospace Company used Building 250 for light manufacturing and industrial activities. Composite aircraft parts, tool fabrication, metal fabrication, and painting activities were conducted in Building 250. Hazardous materials used within the building were sealants, solvents, Freon, developers, oils, resins, and potting compounds. A large portion of the building was a clean room. This area had controlled access and was dust free. The manufacturing of high-tech aircraft components was conducted in this area. Residual mastic staining on the concrete flooring remains in some areas where the clean room was located. The mastic was used to secure the static-free floor covering necessary for clean room conditions.

Chemicals used at the building were stored offsite in a storage facility at the main Boeing complex and delivered to Building 250 in "as-needed" quantities. An inventory for specific chemicals used at the building is presented in Appendix B. All spent chemicals were placed in 55-gallon drums, consolidated at Boeing hazardous waste management facility, manifested and disposed through an EPA-certified waste handling company. Manifests for spent chemical shipments from Building 250 were requested from the Boeing Aerospace Company. Boeing did not respond to this request. Activities conducted at the Oxbow Corporate Park generated enough hazardous waste to classify the facility as a RCRA small-quantity generator. RCRA small-quantity generators are facilities that generate more than 220 pounds and less than 2200 pounds of hazardous waste within a calendar month.

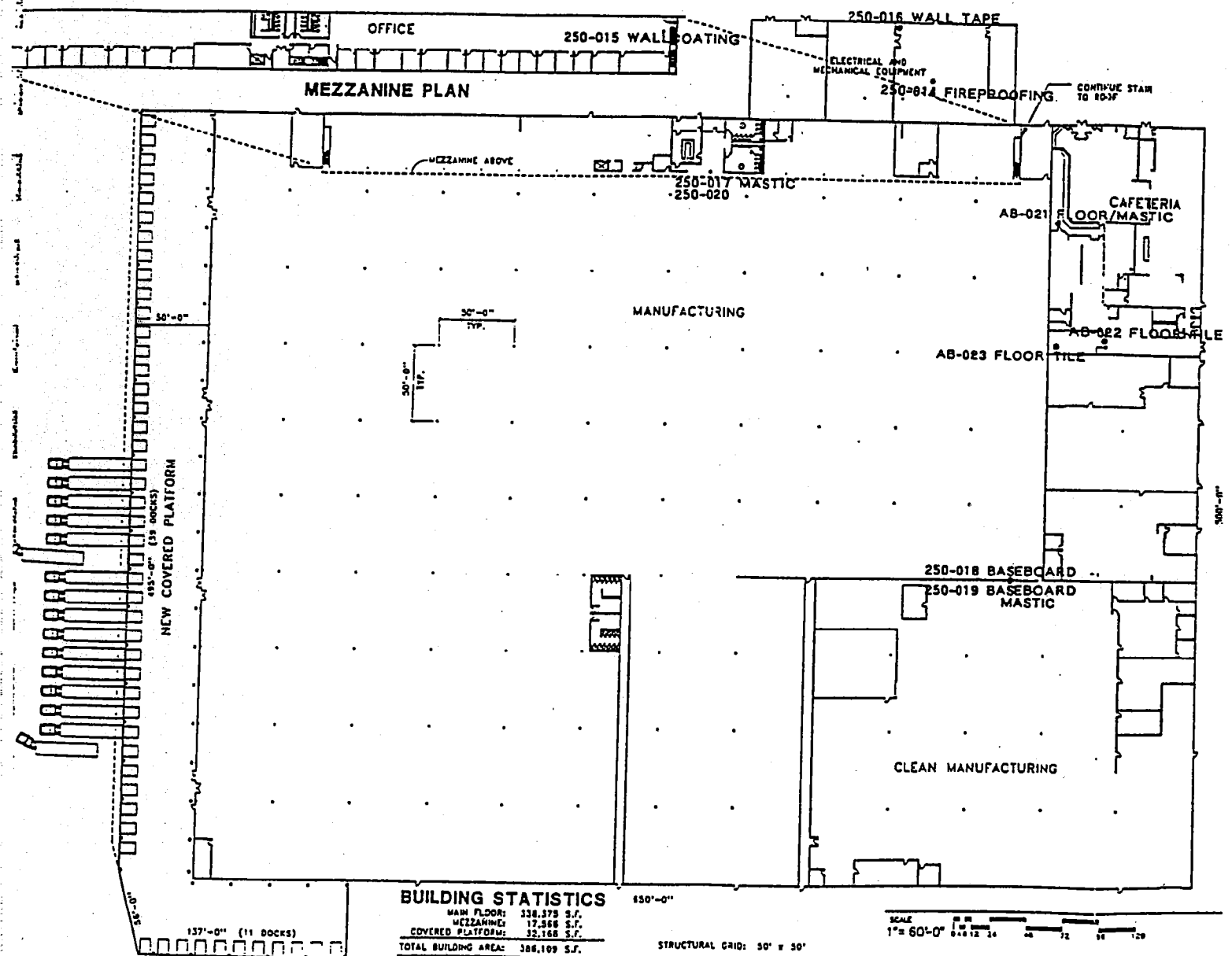
The Boeing Aerospace Corporation maintains its own hazardous material and management division. The Boeing hazardous material and management division has not reported any emergency spill responses for toxic materials spills or mishandlings during Boeing's occupancy. Isolated incidents such as small oil spills or spillage of small quantities of solvents or paints probably occurred, but were not reported to the hazardous material and management division.

4.4. ASBESTOS-CONTAINING MATERIAL

A comprehensive inspection for ACMs was performed for Building 250 on September 21, 1995. The asbestos inspection was performed by Mr. Chris Cearlock, a certified asbestos building inspector, of ICF Kaiser. No ACM was identified in the building during the visual portion of the survey as would be expected for a building constructed in 1987. However, samples were collected from floor tile, wall coatings, baseboard, tile mastic, and pipewrap in the electrical/mechanical room to confirm the absence of ACM. Locations for the asbestos samples collected are presented in Figure 4. The samples were analyzed by polarized light microscopy for asbestos fibers. Analytical results for the samples indicated that none of the material sampled contained asbestos fibers greater than 1 percent. Asbestos sample results are presented in Table 1. A complete laboratory report for the asbestos samples is presented in Appendix C.

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FIGURE 4. ASBESTOS SAMPLE LOCATIONS FOR BUILDING 250



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TABLE 1. ASBESTOS RESULTS FOR BUILDING 250

SAMPLE NO.	SAMPLE DESCRIPTION	RESULTS
AB-250-014	Fireproofing	Mineral Wool
AB-250-015	Paper wall coating from mezzanine	Cellulose/Glass Fiber
AB-250-016	Wall tape from boiler room	Cellulose
AB-250-017	Mastic from 12 x 12 gray/white floor tile	Asphalt/Filler/Binder
AB-250-018	Black baseboard	Filler/Binder
AB-250-019	Black baseboard mastic	Cellulose
AB-250-020	Duplicate of sample AB-250-017	Filler/Binder
AB-250-021	Pink speckled vinyl flooring and mastic	Cellulose/Filler/Binder
AB-250-022	Grey/White 12 x 12 floor tile	Filler/Binder
AB-250-023	Floor tile from cafeteria	Synthetic Filler/Binder

The materials sampled were used throughout the building. These materials contained cellulose, glass fibers and non-asbestos fillers and binders. The results of the asbestos survey indicate that no ACM is present in Building 250.

4.5. LEAD-BASED PAINT

Walls and other painted surfaces were analyzed qualitatively with lead-paint swab sticks. These sticks give a calorimetric response if lead is present in the surfaces tested. None of the walls tested in Building 250 indicated that lead was present in the surface coatings. Walls were checked with the lead-paint swab sticks throughout the structure. Walls in each office on the mezzanine and walls in the main floor area were checked for lead. All of the surfaces tested were free of lead based paint.

4.6. DRINKING WATER ANALYSIS

Water samples were collected from a drinking fountain on the main level, a drinking water fountain at the southeast corner of the building, and from a drinking water fountain in the cafeteria. The samples were analyzed for lead content in accordance with EPA water quality standards. Sample results indicated that lead concentrations for the samples were less than the EPA Drinking Water Quality Standards. EPA recommends that potable water contain less than 50 µg/L of lead. Sample results for the drinking water samples are presented in Table 2. Full laboratory data reports for the drinking water samples are presented in Appendix D.

TABLE 2. DRINKING WATER SAMPLES RESULTS FOR BUILDING 250

SAMPLE	LOCATION	SAMPLE RESULTS
TW-4	Main Floor-Drinking Water Fountain	39 µg/L
TW-5	Drinking Fountain at SE Comer	9 µg/L
TW-6	Drinking Tap in Cafeteria	16 µg/L

4.7. POLYCHLORINATED BIPHENYLS

Electrical transformers, capacitors, and light ballasts were examined to determine if dielectric fluids within the electrical equipment at the building contain PCBs. During the site inspection, two transformers were identified outside Building 250. The transformers outside the building are maintained by Puget Power. These exterior transformers at the Oxbow Corporate Park are labeled as PCB-free; that is, the dielectric fluids within the transformers have been certified to contain less than 1 percent PCBs.

Site inspectors examined accessible light ballasts from fluorescent lights within Building 250. Ten of the light ballasts were inspected and found to be PCB-free. The site inspection revealed several dry-type transformers located throughout the building. Dry-type do not contain dielectric fluids and accordingly did not contain PCBs.

4.8. OTHER ISSUES

During the visual site inspection, a groundwater monitoring well was identified approximately 20 feet from the west wall inside Building 250. No information for the well construction was available. The monitoring well is approximately 16 feet deep. Ken Stickly, Oxbow Property Manager, and Boeing personnel interviewed, did not know why the well was installed to monitor ground water conditions. Personnel at the Boeing hazardous material management center stated that the well had not been sampled when Boeing occupied Building 250. Despite repeated requests, Boeing did not provide documentation concerning the monitoring well. Robert Taaffe of ICF Kaiser sampled the well on October 3, 1995. The monitoring well was purged and sampled according to EPA and industry standards. The samples collected were analyzed for volatile organic compounds, petroleum constituents, and metals.

The 2-inch diameter well is approximately 16 feet deep below the concrete floor. At the time of sampling, there were approximately 18 inches of water in the well. The well also contained a substantial amount of sediment. No unusual odors were noted during the well sampling. A stale, organic smell was present during the well purging. No sheen or other abnormal conditions were observed on the water removed from the well.

The results for the monitoring well samples are presented below in Table 3 and Table 4. The full analytical laboratory reports for the water samples are presented in Appendix E. The concentrations of the contaminants analyzed were less than regulatory standards. Accordingly, potential for the groundwater beneath the site to be contaminated does not appear to be an issue.

TABLE 3. ORGANIC RESULTS FOR MONITORING WELL IN BUILDING 250

CONSTITUENTS	RESULTS (µg/L)
Volatile Organic Compounds	None Detected
Total Petroleum Hydrocarbons	None Detected

TABLE 4. METALS RESULTS FOR MONITORING WELL IN BUILDING 250

ANALYTE	RESULTS (mg/L)
Antimony	> 0.15
Arsenic	> 0.15
Beryllium	> 0.0055
Cadmium	0.033
Chromium	0.12
Copper	0.44
Lead	0.12
Nickel	0.09
Selenium	> 0.2
Silver	> 0.01
Thallium	> 0.15
Zinc	0.42

The sample results indicated that volatile organic compounds and petroleum products were not present above laboratory detection limits in the sample. The metals which were present in the sample did not exceed regulatory standards as established by the Washington State Model Toxic Control Act (MTCA). The results for chromium were higher than MTCA levels permit. However, this MTCA concentration is established for drinking water. The groundwater beneath the Oxbow site is not used for drinking water purposes and MTCA standards are conservative cleanup standards. Since background levels were not established for the site, these concentrations were not excessively high and should not be considered an issue.

A 500-gallon above-ground storage tank (AST) is used to operate a back-up emergency power generator. The AST contains diesel fuel and is located within secondary containment in the electrical/mechanical room. There were no visual indications of leaks or spills associated with the AST.

4.9. SUMMARY OF THE INSPECTION FOR BUILDING 250

The hazardous material inspection for Building 250 at the Oxbow Corporate Park did not reveal any significant issues regarding the historical use or disposal of hazardous materials.

Boeing personnel stated that all hazardous materials used and stored by the Boeing Aerospace Corporation at the site were manifested, consolidated and disposed according to EPA protocol. Ambient air monitoring inside Building 250 did not indicate that presence of organic vapors.

There was no indication that paint applied to surfaces throughout the building contained lead. Drinking water samples from taps in Building 250 did not contain lead above EPA drinking water standards. The asbestos inspection and sample analyses did not identify any materials defined as ACM. All transformers identified at Building 250 were labeled as PCB-free. A subsequent interview with Puget Power officials confirmed the transformers are PCB-free. USPS officials should continue to sample the groundwater monitoring well to ensure that no contaminants are migrating beneath the site. The samples from the monitoring well analyzed for this report should be considered as baseline characterization samples. Variations in groundwater conditions and seasonal influences may produce different results.

The hazardous materials investigation for Building 250 has concluded that the structure and adjacent properties are free from hazardous materials and conditions.

5. HAZARDOUS MATERIAL INVESTIGATION FOR BUILDING 252 AT THE OXBOW CORPORATE PARK

ICF Kaiser performed a hazardous materials investigation for Building 252 at the Oxbow Corporate Park. This inspection included a site inspection, historical use of the property, state and federal agency record review, and an asbestos survey of Building 252. The findings of this investigation are presented below.

5.1. SITE BACKGROUND OF BUILDING 252

Building 252, constructed in 1987, contains approximately 135,400 square feet of work space. The building is a single-story structure with the majority of footage used for manufacturing. A site plan for Building 252 is presented in Figure 5. The building includes a covered loading dock, a paint booth, and a small office area. The structure is constructed of concrete tilt-up walls and 5-inch concrete slab floor. The building is supplied with HVAC. The main floor areas of the building contain metal halide lighting.

Building 252 was used by the Boeing Aerospace Corporation for light manufacturing activities from 1987 until 1994. The hazardous materials investigation conducted for Building 252 consisted of a visual inspection of the structure and adjacent properties. Areas and/or surfaces suspected to have contacted, or to have had the potential to be contaminated by, hazardous materials were sampled and analyzed. Floors, walls, ceilings, and miscellaneous materials in the building were characterized for ACMs and lead-based paint. Drinking water at the building was tested for lead by sampling the drinking water taps. Transformers and light ballasts were inspected for PCB content. Ambient air monitoring was conducted for the exterior and interior of the structure.

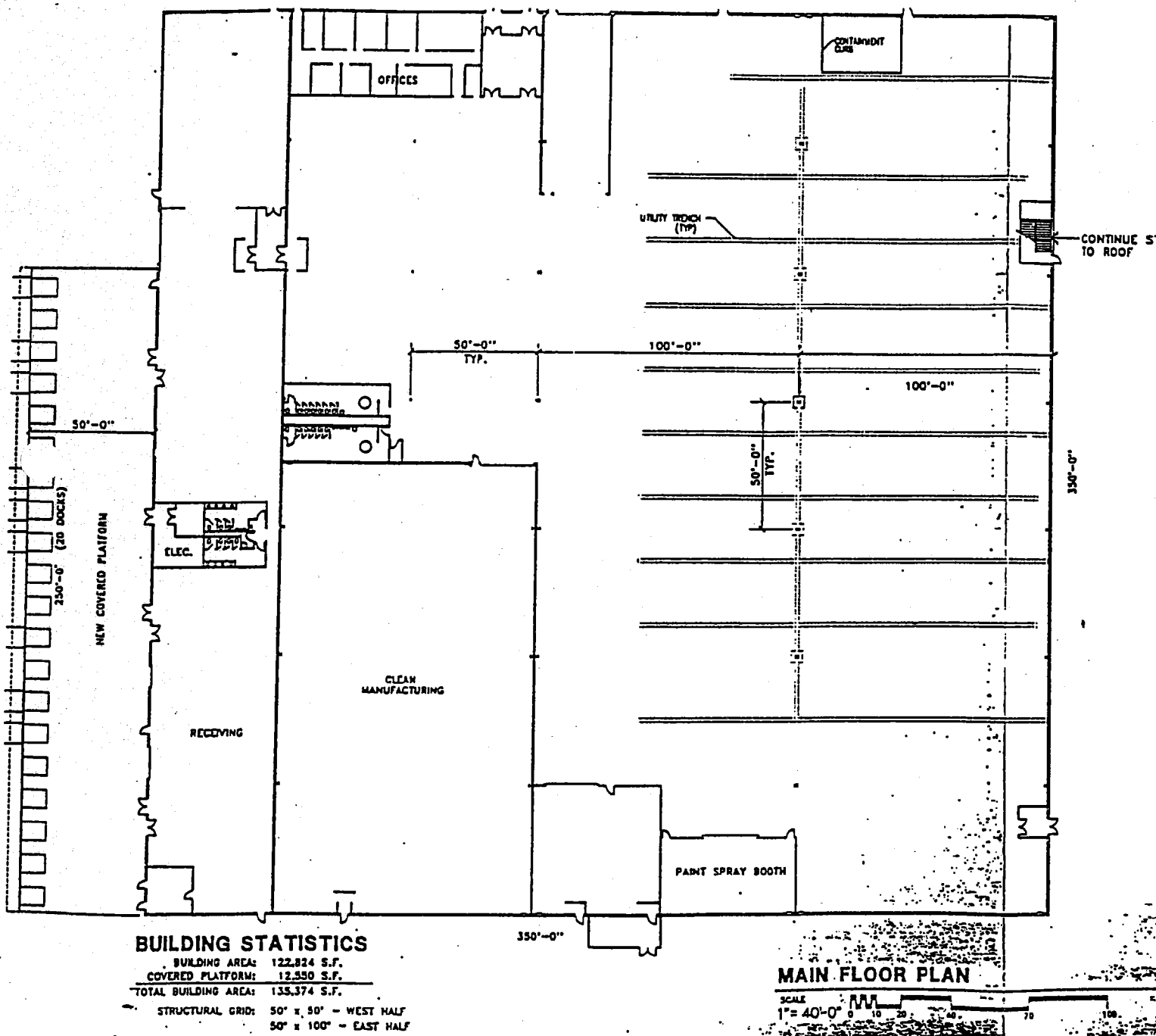
5.2. SITE INSPECTION

A site inspection was conducted at Building 252 on September 21, 1995. The site inspection was completed by Robert Taaffe of ICF Kaiser. Mr. Taaffe was accompanied by Mr. Ken Stickly, Oxbow Corporate Park Property Manager. Building 252 is vacant, but is supplied with power and utilities. General conditions of the building are good to excellent. Structural inspection and determination of the structural integrity of the building are beyond the scope of this report.

The walls in Building 252 are lined with air and gas lines that were associated with parts assembly workstations. An in-floor utility trench is present throughout the eastern portion of Building 250. The utility trench is approximately 24 inches deep and contains electrical and vacuum lines. Access ports to the building-wide vacuum system is present at some workstations.

The paint booth was closely inspected during the site walk. There are no indications from a visual inspection that the paint booth has contamination problems. The paint booth floor is stained with a light coating of paint, yet the overall condition of the booth is generally good. Two floor drains were identified during the site walk. No odor or heavy staining at the floor drains was noted. A stick-up pipe, the purpose of which is unclear, was observed near the southeast interior wall of Building 252. A subsequent conversation with Boeing personnel from the hazardous material management office indicated that they were unsure of the pipe's purpose.

FIGURE 5. FLOOR PLAN FOR BUILDING 252



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5.3. HISTORICAL HAZARDOUS MATERIAL USAGE AND DISPOSAL

The Boeing Aerospace Company was a tenant at Building 252 from 1987, when the structure was constructed, until 1994. The Boeing Aerospace Company used Building 252 for aircraft parts assembly and fabrication activities. Aircraft parts painting, tool fabrication, metal fabrication, and welding activities were conducted in Building 252. Hazardous materials used within the building were paints, resins, and adhesive compounds. A paint booth, located at the south side of the building, used a filter system to retain air particulates.

Chemicals used at the building were stored in small quantities for use. An inventory of specific chemicals used at the building is presented in Appendix B. All spent chemicals were consolidated at the Boeing hazardous material center. Spent chemicals were stored in 55-gallon drums, manifested and disposed through an EPA-certified waste handling company. A manifest for a shipment of spent chemicals generated at Building 252 was requested from Boeing. Boeing personnel did not respond to this request. Activities conducted at the Oxbow Corporate Park during Boeing's tenure generated enough hazardous waste to classify the facility as a RCRA small-quantity generator. There were no outstanding issues or concerns regarding chemical use or disposal identified during the site inspection and document review.

5.4. ASBESTOS-CONTAINING MATERIAL

A comprehensive inspection for ACM was performed for Building 252 on September 21, 1995. The asbestos inspection was performed by Mr. Chris Cearlock of ICF Kaiser. No ACM was identified in the building during the visual portion of the survey. Samples were collected from floor tile, acoustic ceiling tiles, tile mastic, and pipewrap in the electrical/mechanical room to confirm the absence of ACMs. Locations for the asbestos samples collected are presented in Figure 6. Analytical results for the samples indicated that none of the materials sampled contains greater than 1 percent asbestos fibers. Asbestos sample results are presented in Table 5.

5.5. LEAD-BASED PAINT

Walls and other painted surfaces were analyzed quantitatively with lead-paint swab sticks. These sticks give a calorimetric response if lead is present in the surfaces tested. Walls were tested throughout the structure, specifically in the main floor areas, office spaces, cafeteria, and paint booth area. In addition, walls in each office on the mezzanine were checked for lead. None of the analyses from walls on the main level of Building 252 indicated that lead was present.

Samples from the floor adjacent to the paint booth in Building 252 indicated that lead-based paints are present. A slight calorimetric response was noted on the lead-paint swab. Additional sampling was attempted to confirm the presence of lead-based paint; however, the floor is concrete and attempts to remove a piece of it were unsuccessful. The area that may contain lead paint is limited to approximately 20 square feet. The actual quantity of flooring that may contain lead is uncertain because a multitude of colors are present on the floor adjacent to the paint booth.

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FIGURE 6. ASBESTOS SAMPLE LOCATIONS FOR BUILDING 252

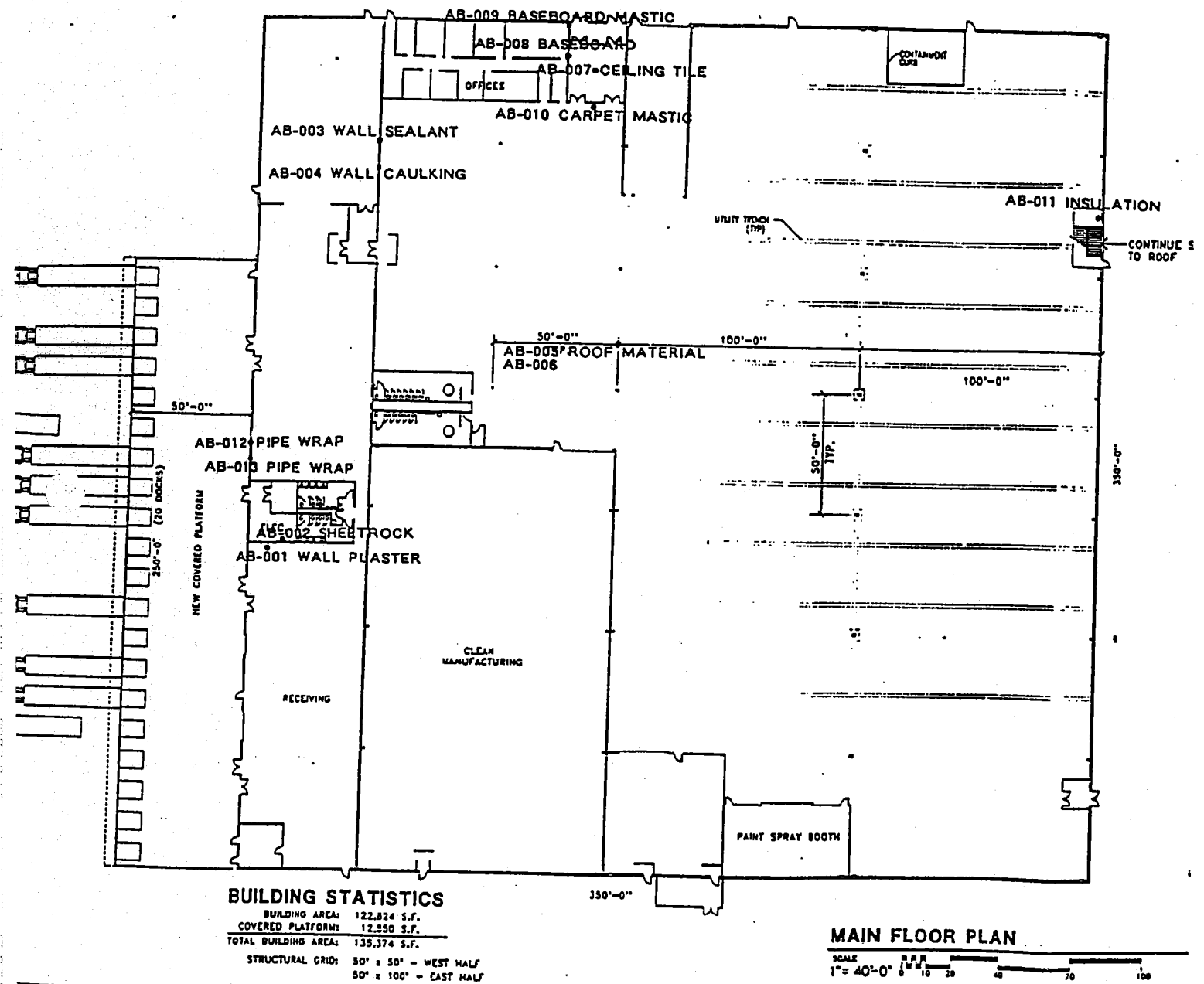


TABLE 5. ASBESTOS RESULTS FOR BUILDING 252

SAMPLE NUMBERS	DESCRIPTION	RESULTS
AB-252-001	Area Wall Plaster	Calcite Filler/Binder
AB-252-002	Office Sheet Rock	Gypsum Filler/Binder
AB-252-003	Sealant Between Wall Section	Polyurethane
AB-252-004	Caulking Between Wall Sections	Calcite Filler/Binder
AB-252-005	Black Mat/Insulation From Roof	Mineral Wool
AB-252-006	Roofing Material	Asphalt Filler/Binder
AB-252-007	Acoustic Ceiling Panel	Cellulose/Mineral Wool
AB-252-008	Gray Baseboard	Vinyl Filler/Binder
AB-252-009	Black Mastic on Baseboard	Filler/Binder
AB-252-010	Carpet and Mastic	Calcite/Cellulose
AB-252-011	Fiberglass Insulation/Tape	Vinyl Filler/Binder
AB-252-012	Foil Pipe Wrap	Cellulose/Glass Fiber
AB-252-013	Elbow Pipe Wrap	Cork/Asphalt Filler

5.6. DRINKING WATER ANALYSIS

Water samples were collected from taps in the restrooms and several water taps on the main level. The samples were analyzed for lead content in accordance with EPA water quality standards. The EPA allows lead up to 50 µg/L in drinking water. Sample results indicated that lead concentrations for the samples were less than water quality standards.

All of the drinking water fountains in Building 252 had pre-filters present on the intake lines. It was not possible to collect drinking water samples before the filters. The disposable filters appeared to be in good condition. Two of the drinking water fountains did not operate and, obviously, were not available to sample. Analytical results for the drinking water samples are presented in Table 6.

5.7. POLYCHLORINATED BIPHENYLS

Electrical transformers, capacitors, and light ballasts were examined to determine if dielectric fluids within the items contain PCBs. During the site inspection, two transformers were identified outside Building 252. The transformers outside the building are maintained by Puget Power. The Puget Power-maintained exterior transformers at the Oxbow Corporate Park are PCB-free; that is, the dielectric fluids within the transformers contain less than 1 percent PCBs. Several dry-type electrical transformers were identified inside Building 252. These dry-type transformers are PCB-free. Site inspectors examined accessible light ballasts from fluorescent

lights within Building 252. Ten of the light ballasts were inspected and found to be PCB-free. The particular model of fluorescent light inspected in Building 252 appears to be present throughout the building.

5.8. AMBIENT AIR MONITORING

A field volatile-organic analyzer was placed in the main floor area of Building 252 and allowed to monitor ambient air conditions for several hours while the site inspection was being conducted. The field instrument did not record any elevated levels of organic vapors. Dusty conditions were present but are believed to be a result of inactivity at the building. No elevated levels of organic vapors were recorded at the two floor drains or the one above-ground pipe identified during the site walk.

5.9. SUMMARY OF THE HAZARDOUS MATERIAL INSPECTION AT BUILDING 252

The only issue identified during the hazardous materials investigation for Building 252 that may be of concern is the possible lead-containing paint stains on the floor adjacent to the paint booth. This material was not confirmed as lead-containing paint because of difficulties sampling the concrete flooring. The stained area of flooring was limited and the paint could be removed before the postal service occupies the building. No other issue of concern with regard to hazardous materials was identified during this investigation.

TABLE 6. DRINKING WATER SAMPLES RESULTS FOR BUILDING 252

SAMPLE	LOCATION	SAMPLE RESULTS
TW-1	Restroom on Main Floor	9 µg/L
TW-2	Restroom on West Side of Building	12 µg/L
TW-3	Tap from Janitor's Closet	12 µg/L

APPENDIX A
ENVIRONMENTAL DATABASE SEARCH

SITE ASSESSMENT PLUS REPORT

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: 51362-007.00 OXBOW CORPORATE PARK 10730 W MARGINAL WAY TUKWILA, WA 98168 Latitude/Longitude: (47.508421, 122.296324)	ROBERT TAAFFE ICF KAISER ENGINEERS-SEATTLE 1191 2ND AVE STE 1200 SEATTLE, WA 98101

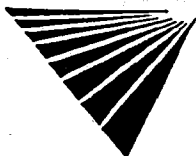
Site Distribution Summary			within 1/8 mile	1/8 to 1/4 mile	1/4 to 1/2 mile	1/2 to 1 mile
Agency / Database - Type of Records						
A) Databases searched to 1 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS	RCRA Corrective Actions	0	0	1	1
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	1	1
STATE	SPL	State equivalent priority list	0	0	0	1
STATE	SCL	State equivalent CERCLIS list	0	1	1	1
B) Databases searched to 1/2 mile:						
US EPA	CERCLIS	Sites under review by US EPA	0	0	2	-
STATE REG CO	LUST	Leaking Underground Storage Tanks	0	1	10	-
STATE/REG/CO	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	0	0	-
C) Databases searched to 1/4 mile:						
US EPA	RCRA Viol	RCRA violations/enforcement actions	0	0	-	-
US EPA	TRIS	Toxic Release Inventory database	0	0	-	-
STATE	UST/AST	Registered underground or aboveground storage tanks	0	2	-	-
D) Databases searched to 1/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	0	-	-	-
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	1	-	-	-

This geographic database search meets the American Society for Testing Materials (ASTM) standards for a government records review. A (-) indicates the search distance exceeds ASTM search parameters.

LIMITATION OF LIABILITY

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DFT 002318



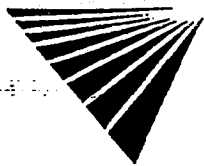
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 084038-001

Date of Report: September 13, 1995

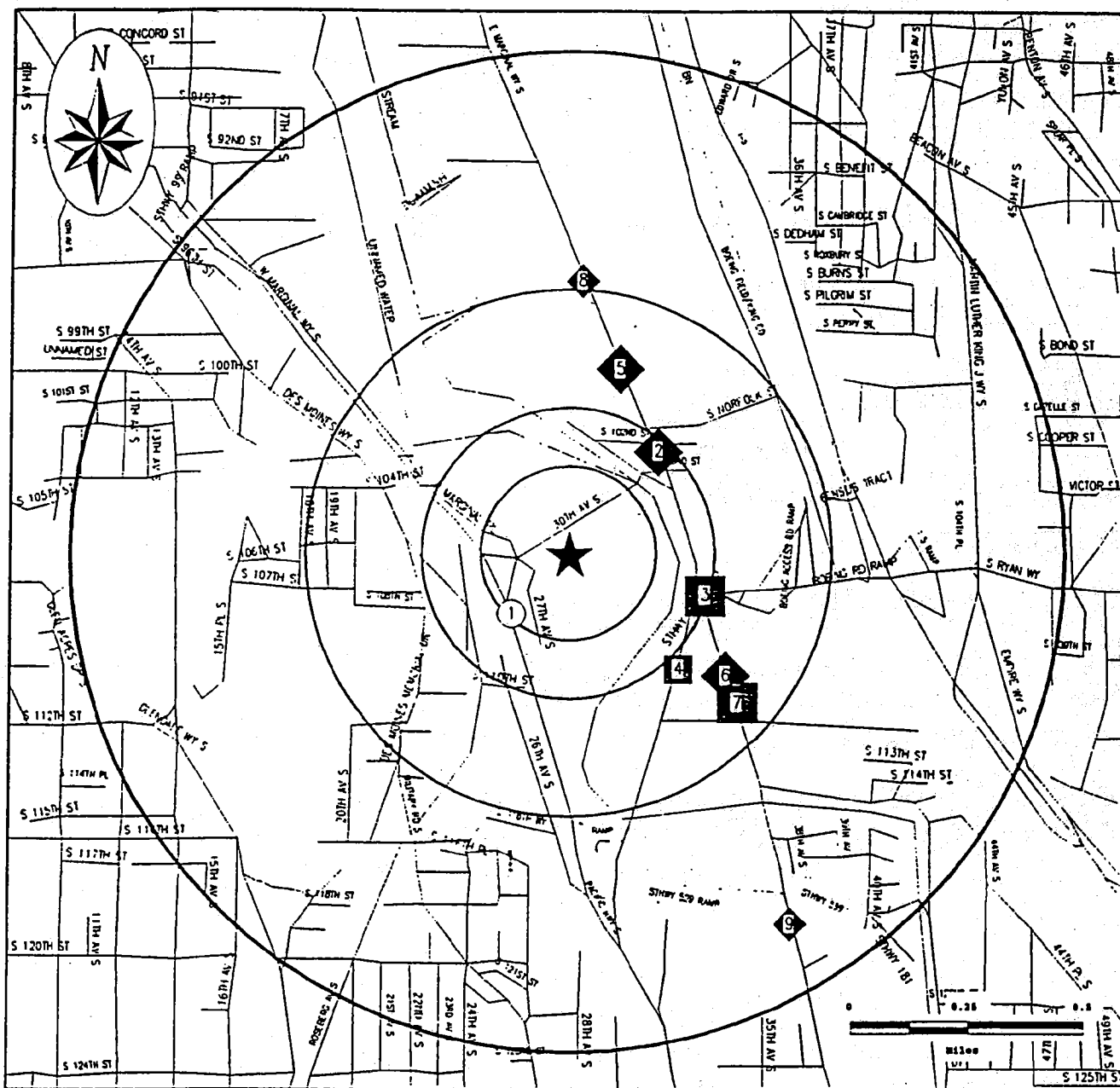
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SITE ASSESSMENT PLUS REPORT

Map of Sites within One Mile



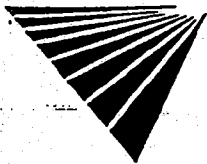
Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	■	△	○
	Multiple Sites	◆◆	■■	△△	○○
Roads Highways Railroads Rivers or Water Bodies Utilities		NPL, SPL, SCL, TSD, CORRACTS	CERCLIS, LUST, SWLF	RCRA VIOL, TRIS, UST	ERNS, GENERATORS

DFT 002319

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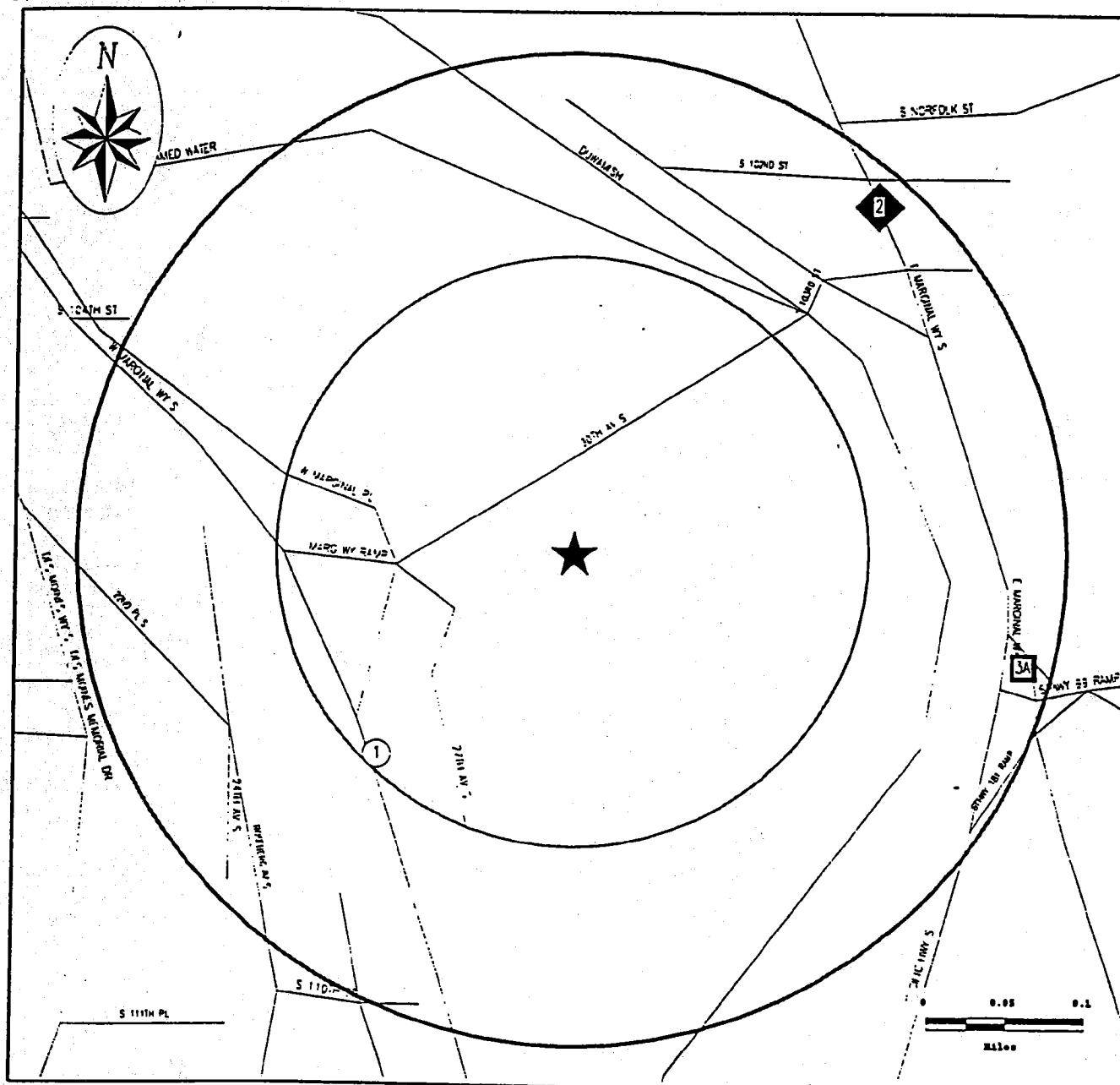
Report ID: 084038-001

Date of Report: September 13, 1995



SITE ASSESSMENT PLUS REPORT

Map of Sites within Quarter Mile

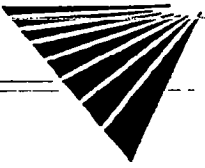


Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	■	▲	○
	Multiple Sites	◆	■	▲	○
Roads Highways Railroads Rivers or Water Bodies Utilities		NPL, SPL, SCL, TSD, CORRACTS	CERCLIS, LUST, SWLF	RCRA VIOL, TRIS, UST	ERNS, GENERATORS

DFT 002320

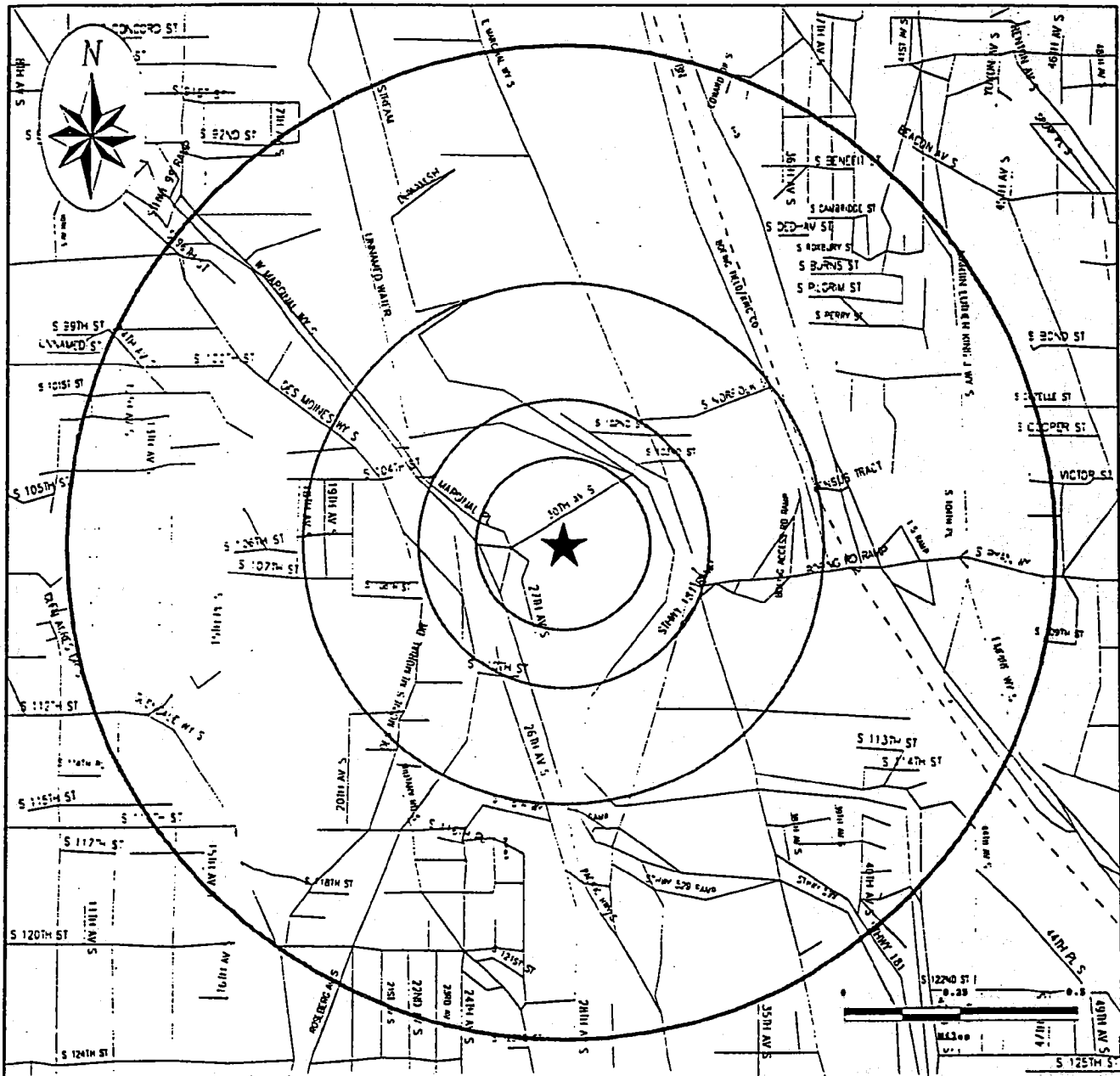
For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403
Report ID: 084038-001

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SITE ASSESSMENT PLUS REPORT

Street Map



Subject Site



Roads, Highways, Rivers, Water Bodies

Railroads, Utilities

DFT 002321

SITE ASSESSMENT PLUS REPORT

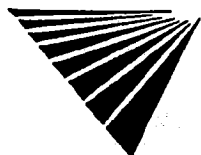
SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 1/8 mile)	VISTA ID DISTANCE DIRECTION	A				B		C		D				
			NPL	CORRACTS	TSD	SPL	SCL	CERCLIS	LUST	SWLF	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
1	BOEING ADVANCED SYSTEMS CO OXBOW SIT 10700 W MARGINAL WAY S SEATTLE, WA 98168	52652 0.12 MI SW													X

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID DISTANCE DIRECTION	A				B		C		D			
			NPL	CORRACTS	TSD	SPL	SCL	CERCLIS	LUST	SWLF	RCRA VIOL	TRIS	UST/AST	ERNS
2	CONSTRUCTORS PAMCO YARD 10215 EAST MARGINAL WAY SO. SEATTLE, WA 98168	1846660 0.22 MI NE											X	
2	NORTHWEST AUTO WRECKING 10230 E. MARGINAL WAY S. SEATTLE, WA 98168	1855686 0.23 MI NE					X							
3A	CHEVRON STATION # 9-3099 10805 E MARGINAL WAY S SEATTLE, WA 98168	3629309 0.23 MI E							X				X	

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A				B		C		D			
			NPL	CORRACTS	TSD	SPL	SCL	CERCLIS	LUST	SWLF	RCRA VIOL	TRIS	UST/AST	ERNS
3	MCCONKEY PROPERTY 10710 E. MARGINAL WAY SOU SEATTLE, WA 98168	4267292 0.25 MI E						X						
3	HERTZ EQUIPMENT RENTAL CORP 10710 E MARGINAL WAY SOUTH SEATTLE, WA 98168	1846661 0.25 MI E						X			.			
4	SEA TAC FORD TRUCK SALES INC 11000 PACIFIC HWY S SEATTLE, WA 98168	373065 0.28 MI SE						X			.		.	
5	ASSOCIATED GROCERS HUMBLE STAT 10056 E MARGINAL WAY SOUT SEATTLE, WA 98168	1855691 0.33 MI NE						X						
5	OLD HUMBLE STATION 10056 E MARGINAL WAY SOUTH SEATTLE, WA 98168	1846659 0.33 MI NE						X			.			

DFT 002322



X = search criteria; . = tag-along (beyond search criteria).

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Report ID: 084038-001

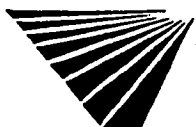
Date of Report: September 13, 1995

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MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A				B		C		D				
			NPL	CORRACTS	TSD	SPL	SCL	CERCLIS	LUST	SWLF	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
5	BOEING COMPANY DEVELOPMENT CENTER 9725 E MARGINAL WAY S SEATTLE, WA 98108	52656 0.36 MI N		X	X			X	X		•	•			•
5	DIMENSIONAL ENGINEERING 9407 E MARGINAL WY SEATTLE, WA 98108	122453 0.38 MI N						X							
6	PONY EXPRESS COURIER CORPORATION 11004 E MARGINAL WY S. SEATTLE, WA 98168	1846662 0.35 MI SE							X				•		
6	YELLOW FREIGHT TERMINAL/TKWILA 11231 E. MARGINAL WAY S. SEATTLE, WA 98168	1846664 0.37 MI SE					X		X				•		
7	FARWEST TAXI FACILITY 11180 E MARGINAL WAY SEATTLE, WA 98168	4267293 0.42 MI SE							X						
7	FARWEST TAXI FACILITY 11180 E MARGINAL WAY SEATTLE, WA 98168	2884077 0.42 MI SE							X						

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)	VISTA ID DISTANCE DIRECTION	A				B			C		D		
			NPL	CORRACTS	TSD	SPL	SCL	CERCLIS	LUST	SWLF	RCRA VIOL	TRIS	UST/AST	ERNS
8	RHONE POULENC 9229 E MARGINAL WAY S SEATTLE, WA 98108	352887 0.52 MI N		X	X		X	•			•			•
9	METRO SOUTH BASE 11911 E. MARGINAL WAY S. SEATTLE, WA 98168	270233 0.85 MI SE				X		•				•		•



X = search criteria; • = tag-along (beyond search criteria).

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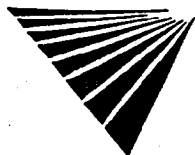
Report ID: 084038-001

Date of Report: September 13, 1995

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UNMAPPED SITES	VISTA ID	A				B		C		D				
		NPL	CORRACTS	TSD	SPL	SCL	CERCLIS	LUST	SWLF	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
MT OLIVET LANDFILL WA	4287769								X					
NORTH SEATTLE WA	4287783								X					
ALGONA TRANSFER STATION WA	4287548								X					
PACIFIC COAST COAL COMPANY WA	4287805								X					
RABANCO - BLACK RIVER T.S. WA	5165394								X					
COUGAR MTN MW NW NE S25 T24N R5E WA 98000	2884179											X		
RABANCO - 3RD LANDER T.S. WA	4287830								X					
PORT OF SEATTLE PAN AM HANGAR PO BOX 68727 SEATTLE, WA 98168	4266847							X						
SEA-TAC PAN AM FUEL FARM PO BOX 68727 SEATTLE, WA 98168	4266848							X						
RENTON TRANSFER STATION WA	4287844								X					
BOW LAKE TRANSFER STATION WA	4287593								X					
CEDAR FALLS DROP BOX SITE WA	4287598								X					
CEDER GROVE COMPOSTING CO WA	4287599								X					
CEDAR HILLS LANDFILL WA	4287600								X					
SEA-TAC CRAWFORD AVIATION SEA-TAC INTERNATIONAL AIRPORT SEATTLE, WA 98168	4686193							X						
SKYKOMISH DROP BOX WA	4287859								X					
SILVIGROW WA	4287864								X					
SOUTH SEATTLE T.S. WA	4287880								X					
STEVENS PASS WA	4287885								X					
SW SUBURBAN SEWER DISTRICT WA	4287889								X					
VASHON ISLAND SLUDGE SITE WA	4287906								X					
PAN AMERICAN WORLD AIRWAY-SEATAC PO BOX 68727 SEATTLE, WA 98168	5397930							X						
WHITE RIVER SYSTEMS WA	4287914								X					

DFT 002324



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UNMAPPED SITES	VISTA ID	NPL	A				B		C		D		
			CORRACTS	TSD	SPL	SCL	CERCLIS	LUST	SWLF	RCRA VIOL	TRIS	UST/AST	ERNS
DUVALL , WA	4287663							X					
EUNEMCLAW SLUDGE SITE , WA	4287670							X					
EASTMONT TRANSFER STATION , WA	4287671							X					
FACTORIA TRANSFER STATION , WA	4287673							X					
WASTE MANAGEMENT - RAINIER , WA	4287931							X					
WASTE MANAGEMENT OF SEATTLE , WA	4287932							X					
FIRST NORTHEAST T.S. , WA	4287686							X					
GRO-CO , WA	4287694							X					
HOUGHTON TRANSFER STATION , WA	4287710							X					
IDDINGS , WA	4287713							X					
RATTLE SNAKE MTN MW NW S20 T23N R8E NONE, WA 98000	1839588										X		
KING COUNTY AIRPORT P O BOX 80245 SEATTLE, WA 98108	4900843										X		
SEA-TAC INTERNATIONAL AIRPORT PO BOX 68727 SEATTLE, WA 98168	1839601						X						

DFT 002325

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SITE ASSESSMENT PLUS REPORT

DETAILS

PROPERTY AND THE ADJACENT AREA (within 1/8 mile)

VISTA Address*:	BOEING ADVANCED SYSTEMS CO OXBOW SIT 10700 W MARGINAL WAY S SEATTLE, WA 98168	VISTA ID#:	52652
		Distance/Direction:	0.12 MI / SW
		Plotted as:	Point
RCRA-SmGen - RCRA-Small Generator / SRC# 2465		EPA ID:	WAD981771017
Agency Address:		BOEING ADVANCED SYSTEMS CO OXBOW SIT 10700 W MARGINAL WAY S SEATTLE, WA 98108	
Generator Class:		GENERATORS WHO GENERATE 100 KG/MONTH BUT LESS THAN 1000 KG/MONTH OF NON-ACUTELY HAZARDOUS WASTE	

Map ID

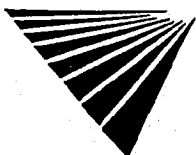
1

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)

VISTA Address*:	CONSTRUCTORS PAMCO YARD 10215 EAST MARGINAL WAY SO SEATTLE, WA 98168	VISTA ID#:	1846660
		Distance/Direction:	0.22 MI / NE
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 2395		Agency ID:	010266
Agency Address:		SAME AS ABOVE	
Underground Tanks:		6	
Aboveground Tanks:		NOT REPORTED	
Tanks Removed:		6	
Tank ID:	1	Tank Status:	REMOVED
Tank Contents:	USED OIL	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE
Tank ID:	2	Tank Status:	REMOVED
Tank Contents:	LEADED GAS	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE
Tank ID:	3	Tank Status:	REMOVED
Tank Contents:	DIESEL	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	5000 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	4	Tank Status:	REMOVED
Tank Contents:	LEADED GAS	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE
Tank ID:	5	Tank Status:	REMOVED
Tank Contents:	LEADED GAS	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE

Map ID

2



* VISTA address includes enhanced city and ZIP.

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SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

Tank ID:	6	Tank Status:	REMOVED
Tank Contents:	DIESEL	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE

VISTA Address*:	NORTHWEST AUTO WRECKING 10230 E. MARGINAL WAY S. SEATTLE, WA 98168	VISTA ID#:	1855686
		Distance/Direction:	0.23 MI / NE
		Plotted as:	Point

Map ID

2

SCL - State Equivalent CERCLIS List / SRC# 2405	EPA/Agency ID:	N/A
Agency Address:	NORTHWEST AUTO WRECKING 10230 E. MARGINAL WAY S. TUKWILA, WA 98168	
Facility Type:	NOT AVAILABLE	
Lead Agency:	NOT AVAILABLE	
State Status:	ACTIVE SITE	
Pollutant 1:	EPA PRIORITY POLLUTANTS-METALS CYANIDE	
Pollutant 2:	UNKNOWN	
Pollutant 3:	UNKNOWN	
Fields Not Reported:	Status	

VISTA Address*:	CHEVRON STATION # 9-3099 10805 E MARGINAL WAY S SEATTLE, WA 98168	VISTA ID#:	3629309
		Distance/Direction:	0.23 MI / E
		Plotted as:	Point

Map ID

3A

STATE LUST - State Leaking Underground Storage Tank / SRC# 2394	Agency ID:	2609
Agency Address:	CHEVRON STATION # 9-3099 10805 E MARGINAL WAY S TUKWILA, WA 98168-1931	
Tank Status:	NOT AVAILABLE	
Discovery Date:	MARCH 28, 1990	
Media Affected:	GROUNDWATER	
Leak Cause:	UNAVAILABLE	
Remedial Action:	NOT AVAILABLE	
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED	
Remedial Status 2:	NOT AVAILABLE	
Fields Not Reported:	Substance, Quantity (Units), Leak Source	

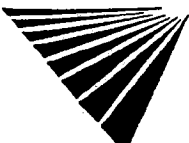
STATE LUST - State Leaking Underground Storage Tank / SRC# 2497	Agency ID:	2609
--	-------------------	-------------

Agency Address:	CHEVRON STATION # 9-3099 10805 EAST MARGINAL WAY S TUKWILA, WA 98108	
Tank Status:	NOT AVAILABLE	
Media Affected:	GROUNDWATER, POSSIBLE SOIL	
Leak Cause:	UNAVAILABLE	
Remedial Action:	NOT AVAILABLE	
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED	
Remedial Status 2:	NOT AVAILABLE	
Fields Not Reported:	Discovery Date, Substance, Quantity (Units), Leak Source	

STATE UST - State Underground Storage Tank / SRC# 2395	Agency ID:	101796
---	-------------------	---------------

Agency Address:	CHEVRON STATION 600993099 10805 EAST MARGINAL WAY SOUTH TUKWILA, WA 98108	
Underground Tanks:	2	
Aboveground Tanks:	NOT REPORTED	
Tanks Removed:	2	

DFT 002327



* VISTA address includes enhanced city and ZIP.

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SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

Tank ID:	1	Tank Status:	REMOVED
Tank Contents:	DIESEL	Leak Monitoring:	NOT AVAILABLE
Tank Age:	24	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1100 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	2	Tank Status:	REMOVED
Tank Contents:	DIESEL	Leak Monitoring:	NOT AVAILABLE
Tank Age:	24	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1100 (GALLONS)	Tank Material:	NOT AVAILABLE

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)

VISTA Address*:	MCCONKEY PROPERTY 10710 E. MARGINAL WAY SOU SEATTLE, WA 98168	VISTA ID#:	4267292
		Distance/Direction:	0.25 MI / E
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC#	2497	Agency ID:	2244

Map ID

3

Agency Address: SAME AS ABOVE
 Tank Status: NOT AVAILABLE
 Media Affected: SOIL/SAND/LAND
 Leak Cause: UNAVAILABLE
 Remedial Action: NOT AVAILABLE
 Remedial Status 1: CONDUCTED (WASHINGTON ONLY)
 Remedial Status 2: NOT AVAILABLE
 Fields Not Reported: Discovery Date, Substance, Quantity (Units), Leak Source

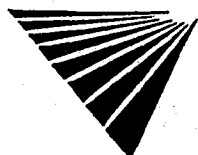
VISTA Address*:	HERTZ EQUIPMENT RENTAL CORP 10710 E MARGINAL WAY SOUTH SEATTLE, WA 98168	VISTA ID#:	1846661
		Distance/Direction:	0.25 MI / E
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC#	2394	Agency ID:	2244

Map ID

3

Agency Address: SAME AS ABOVE
 Tank Status: NOT AVAILABLE
 Discovery Date: OCTOBER 25, 1990
 Media Affected: SOIL/SAND/LAND
 Leak Cause: UNAVAILABLE
 Remedial Action: NOT AVAILABLE
 Remedial Status 1: CONDUCTED (WASHINGTON ONLY)
 Remedial Status 2: NOT AVAILABLE
 Fields Not Reported: Substance, Quantity (Units), Leak Source

DFT 002328



SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	SEA TAC FORD TRUCK SALES INC 11000 PACIFIC HWY S SEATTLE, WA 98168	VISTA ID#:	373065
		Distance/Direction:	0.28 MI / SE
		Plotted as:	Point

Map ID

4

STATE LUST - State Leaking Underground Storage Tank / SRC# 2394	Agency ID:	2134
--	-------------------	-------------

Agency Address: SEA-TAC FORD TRUCK SALES INC
11000 PACIFIC HWY S
SEATTLE, WA 98168

Tank Status: NOT AVAILABLE

Discovery Date: DECEMBER 10, 1990

Media Affected: SOIL/SAND/LAND

Leak Cause: UNAVAILABLE

Remedial Action: NOT AVAILABLE

Remedial Status 1: CONDUCTED (WASHINGTON ONLY)

Remedial Status 2: NOT AVAILABLE

Fields Not Reported: Substance, Quantity (Units), Leak Source

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497	Agency ID:	2134
--	-------------------	-------------

Agency Address: FORD TRUCK SALES
11000 PACIFIC HWY SOUTH
SEATTLE, WA 98168

Tank Status: NOT AVAILABLE

Media Affected: SOIL/SAND/LAND

Leak Cause: UNAVAILABLE

Remedial Action: NOT AVAILABLE

Remedial Status 1: CONDUCTED (WASHINGTON ONLY)

Remedial Status 2: NOT AVAILABLE

Fields Not Reported: Discovery Date, Substance, Quantity (Units), Leak Source

VISTA Address*:	ASSOCIATED GROCERS HUMBLE STAT 10056 E MARGINAL WAY SOUT SEATTLE, WA 98168	VISTA ID#:	1855691
		Distance/Direction:	0.33 MI / NE
		Plotted as:	Point

Map ID

5

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497	Agency ID:	2212
--	-------------------	-------------

Agency Address: ASSOCIATED GROCERS HUMBLE STAT
10056 E MARGINAL WAY SOUT
TUKWILA, WA 98168

Tank Status: NOT AVAILABLE

Media Affected: GROUNDWATER, POSSIBLE SOIL

Leak Cause: UNAVAILABLE

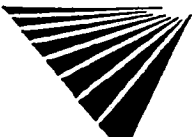
Remedial Action: NOT AVAILABLE

Remedial Status 1: CLEANUP IN PROGRESS/REQUIRED

Remedial Status 2: NOT AVAILABLE

Fields Not Reported: Discovery Date, Substance, Quantity (Units), Leak Source

DFT 002329



SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	OLD HUMBLE STATION	VISTA ID#:	1846659
	10056 E MARGINAL WAY SOUTH	Distance/Direction:	0.33 MI / NE
	SEATTLE, WA 98168	Plotted as:	Point

Map ID

5

STATE LUST - State Leaking Underground Storage Tank / SRC# 2394	Agency ID:	2212
--	-------------------	-------------

Agency Address:	OLD HUMBLE STATION 10056 E MARGINAL WAY SOUTH TUKWILA, WA 98168
Tank Status:	NOT AVAILABLE
Discovery Date:	AUGUST 4, 1989
Media Affected:	GROUNDWATER
Leak Cause:	UNAVAILABLE
Remedial Action:	NOT AVAILABLE
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED
Remedial Status 2:	NOT AVAILABLE
Fields Not Reported:	Substance, Quantity (Units), Leak Source

VISTA Address*:	BOEING COMPANY DEVELOPMENT CENTER	VISTA ID#:	52656
	9725 E MARGINAL WAY S	Distance/Direction:	0.36 MI / N
	SEATTLE, WA 98108	Plotted as:	Point

Map ID

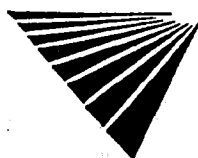
5

CERCLIS / SRC# 2510	EPA ID:	WAD093639946
----------------------------	----------------	---------------------

Agency Address:	BOEING COMPANY DEVELOPMENT CENTER 9725 E MARGINAL WAY S SEATTLE, WA 98124
NPL Status:	NOT A PROPOSED, CURRENT, OR DELETED NPL SITE
Site Ownership:	OTHER
Lead Agency:	NO DETERMINATION
Site Description:	NOT REPORTED

Event Type:	Lead Agency:	Event Status:	Start Date:	Completion Date:
DISCOVERY	EPA FUND-FINANCED	UNKNOWN	NOT REPORTED	NOVEMBER 18, 1980
PRELIMINARY ASSESSMENT	STATE, FUND FINANCED	UNKNOWN	APRIL 16, 1985	APRIL 30, 1985
PRELIMINARY ASSESSMENT	EPA FUND-FINANCED	NO FURTHER REMEDIAL ACTION PLANNED	MAY 27, 1988	MAY 27, 1988

DFT 002330



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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

CORRACTS / SRC# 2465		EPA ID:	WAD093639946
Agency Address:	BOEING CO DEVELOPMENTAL CTR 9725 E MARGINAL WAY S SEATTLE, WA 98108		
Prioritization Status:	HIGH		
RCRA Facility Assessment Completed:	YES		
Notice of Contamination:	NO		
Determination of need For a RFI (RCRA Facility Investigation):	NO		
RFI Imposed:	NO		
RFI Workplan Notice of Deficiency Issued:	NO		
RFI Workplan Approved:	NO		
RFI Report Received:	NO		
RFI Approved:	NO		
No Further Corrective Action at this Time:	NO		
Stabilization Measures Evaluation:	YES		
CMS (Corrective Measure Study) Imposition:	NO		
CMS Workplan Approved:	NO		
CMS Report Received:	NO		
CMS Approved:	NO		
Date for Remedy Selection (CM Imposed):	NO		
Corrective Measures Design Approved:	NO		
Corrective Measures Investigation Workplan Approved:	NO		
Certification of Remedy Completion:	NO		
Stabilization Measures Implementation:	YES		
Stabilization Measures Completed:	NO		
Corrective Action Process Termination:	NO		
RCRA-TSD / SRC# 2465		EPA ID:	WAD093639946
Agency Address:	BOEING CO DEVELOPMENTAL CTR 9725 E MARGINAL WAY S SEATTLE, WA 98108		
Off-Site Waste Received:	NO		
Land Disposal:	NO		
Incinerator:	NO		
Storage/Treatment:	YES		
STATE LUST - State Leaking Underground Storage Tank / SRC# 2497		Agency ID:	1476
Agency Address:	BOEING DEVELOPMENTAL CENTER 9725 EAST MARGINAL WAY SO SEATTLE, WA 98108		
Tank Status:	NOT AVAILABLE		
Media Affected:	GROUNDWATER, POSSIBLE SOIL		
Leak Cause:	UNAVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Discovery Date, Substance, Quantity (Units), Leak Source		

DFT 002331

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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

STATE LUST - State Leaking Underground Storage Tank / SRC#		Agency ID:	2557
2497			
Agency Address:	BOEING ISAACSON THOMPSON 8701 E MARGINAL WAY SEATTLE, WA 98108		
Tank Status:	NOT AVAILABLE		
Media Affected:	SOIL/SAND/LAND		
Leak Cause:	UNAVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Discovery Date, Substance, Quantity (Units), Leak Source		

VISTA Address*:	DIMENSIONAL ENGINEERING 9407 E MARGINAL WY SEATTLE, WA 98108	VISTA ID#:	122453
		Distance/Direction:	0.38 MI / N
		Plotted as:	Point

Map ID

5

CERCLIS / SRC# 2510		EPA ID:	WAD079247474	
Agency Address:	SAME AS ABOVE			
NPL Status:	NOT A PROPOSED, CURRENT, OR DELETED NPL SITE			
Site Ownership:	OTHER			
Lead Agency:	NO DETERMINATION			
Site Description:	NOT REPORTED			
Event Type:	Lead Agency:	Event Status:	Start Date:	Completion Date:
DISCOVERY	EPA FUND-FINANCED	UNKNOWN	NOT REPORTED	DECEMBER 1, 1982
PRELIMINARY ASSESSMENT	STATE, FUND FINANCED	UNKNOWN	SEPTEMBER 24, 1984	SEPTEMBER 26, 1984
SCREENING SITE INSPECTION	EPA FUND-FINANCED	NO FURTHER REMEDIAL ACTION PLANNED	AUGUST 1, 1985	DECEMBER 18, 1985

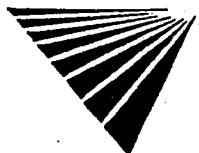
VISTA Address*:	PONY EXPRESS COURIER CORPORATION 11004 E MARGINAL WY S. SEATTLE, WA 98168	VISTA ID#:	1846662
		Distance/Direction:	0.35 MI / SE
		Plotted as:	Point

Map ID

6

STATE LUST - State Leaking Underground Storage Tank / SRC#		Agency ID:	3928
2394			
Agency Address:	SAME AS ABOVE		
Tank Status:	NOT AVAILABLE		
Discovery Date:	OCTOBER 6, 1992		
Media Affected:	SOIL/SAND/LAND		
Leak Cause:	UNAVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Substance, Quantity (Units), Leak Source		

DFT 002332



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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497		Agency ID:	3928
Agency Address:	PONY EXPRESS 11004 E MARGINAL WY S. SEATTLE, WA 98168		
Tank Status:	NOT AVAILABLE		
Media Affected:	SOIL/SAND/LAND		
Leak Cause:	UNAVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Discovery Date, Substance, Quantity (Units), Leak Source		

VISTA Address*:	YELLOW FREIGHT TERMINAL/TKWILA 11231 E. MARGINAL WAY S. SEATTLE, WA 98168	VISTA ID#:	1846664
		Distance/Direction:	0.37 MI / SE
		Plotted as:	Point

Map ID

6

SCL - State Equivalent CERCLIS List / SRC# 2405		EPA/Agency ID:	N/A
Agency Address:	YELLOW FREIGHT TERMINAL/TKWILA 11231 E. MARGINAL WAY S. TUKWILA, WA 98168		
Facility Type:	NOT AVAILABLE		
Lead Agency:	NOT AVAILABLE		
State Status:	INDEPENDENT REMEDIAL ACTION, FINAL INDEPENDENT RA REPORT RECEIVED		
Pollutant 1:	EPA PRIORITY POLLUTANTS-METALS CYANIDE		
Pollutant 2:	UNKNOWN		
Pollutant 3:	UNKNOWN		
Fields Not Reported:	Status		

STATE LUST - State Leaking Underground Storage Tank / SRC# 2394		Agency ID:	1505
Agency Address:	YELLOW FREIGHT SYSTEM INC 11231 E MARGINAL WAY SOUTH SEATTLE, WA 98168		
Tank Status:	NOT AVAILABLE		
Discovery Date:	OCTOBER 18, 1989		
Media Affected:	SOIL/SAND/LAND		
Leak Cause:	UNAVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Substance, Quantity (Units), Leak Source		

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497		Agency ID:	1505
Agency Address:	YELLOW FREIGHT SEATTLE 11231 E MARGINAL WAY SOUT SEATTLE, WA 98168		
Tank Status:	NOT AVAILABLE		
Media Affected:	SOIL/SAND/LAND		
Leak Cause:	UNAVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Discovery Date, Substance, Quantity (Units), Leak Source		

DFT 002333

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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	FARWEST TAXI FACILITY 11180 E MARGINAL WAY SEATTLE, WA 98168	VISTA ID#:	4267293
		Distance/Direction:	0.42 MI / SE
		Plotted as:	Point

Map ID

7

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497	Agency ID:	1533
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Agency Address:	SAME AS ABOVE
Tank Status:	NOT AVAILABLE
Media Affected:	SOIL/SAND/LAND
Leak Cause:	UNAVAILABLE
Remedial Action:	NOT AVAILABLE
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)
Remedial Status 2:	NOT AVAILABLE
Fields Not Reported:	Discovery Date, Substance, Quantity (Units), Leak Source

VISTA Address*:	FARWEST TAXI FACILITY 11180 E MARGINAL WAY SEATTLE, WA 98168	VISTA ID#:	2884077
		Distance/Direction:	0.42 MI / SE
		Plotted as:	Point

Map ID

7

STATE LUST - State Leaking Underground Storage Tank / SRC# 2394	Agency ID:	1533
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Agency Address:	SAME AS ABOVE
Tank Status:	NOT AVAILABLE
Discovery Date:	MAY 9, 1989
Media Affected:	SOIL/SAND/LAND
Leak Cause:	UNAVAILABLE
Remedial Action:	NOT AVAILABLE
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)
Remedial Status 2:	NOT AVAILABLE
Fields Not Reported:	Substance, Quantity (Units), Leak Source

SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)

VISTA Address*:	RHONE POULENC 9229 E MARGINAL WAY S SEATTLE, WA 98108	VISTA ID#:	352887
		Distance/Direction:	0.52 MI / N
		Plotted as:	Point

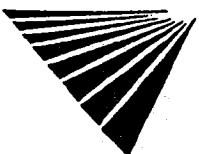
Map ID

8

SCL - State Equivalent CERCLIS List / SRC# 2405	EPA/Agency ID:	N/A
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Agency Address:	RHONE-POULENC INC. 9229 E MARGINAL WY S SEATTLE, WA 98108
Facility Type:	NOT AVAILABLE
Lead Agency:	NOT AVAILABLE
State Status:	ACTIVE SITE
Pollutant 1:	EPA PRIORITY POLLUTANTS-METALS CYANIDE
Pollutant 2:	UNKNOWN
Pollutant 3:	UNKNOWN
Fields Not Reported:	Status

DFT 002334



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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.

CORRACTS / SRC# 2465		EPA ID:	WAD009282302
Agency Address:	RHONE POULENC INC 9229 E MARGINAL WAY S SEATTLE, WA 981084031		
Prioritization Status:	HIGH		
RCRA Facility Assessment Completed:	YES		
Notice of Contamination:	NO		
Determination of need For a RFI (RCRA Facility Investigation):	YES		
RFI Imposed:	YES		
RFI Workplan Notice of Deficiency Issued:	NO		
RFI Workplan Approved:	YES		
RFI Report Received:	NO		
RFI Approved:	NO		
No Further Corrective Action at this Time:	NO		
Stabilization Meseaures Evaluation:	YES		
CMS (Corrective Measure Study) Imposition:	NO		
CMS Workplan Approved:	NO		
CMS Report Received:	NO		
CMS Approved:	NO		
Date for Remedy Selection (CM Imposed):	NO		
Corrective Measures Design Approved:	NO		
Corrective Measures Investigation Workplan Approved:	NO		
Certification of Remedy Completion:	NO		
Stabilization Measures Implementation:	YES		
Stabilization Measures Completed:	NO		
Corrective Action Process Termination:	NO		

RCRA-TSD / SRC# 2465		EPA ID:	WAD009282302
Agency Address:	RHONE POULENC INC 9229 E MARGINAL WAY S SEATTLE, WA 98108		
Off-Site Waste Received:	NO		
Land Disposal:	NO		
Incinerator:	NO		
Storage/Treatment:	NO		

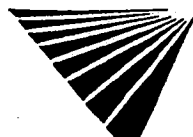
VISTA Address:	METRO SOUTH BASE 11911 E. MARGINAL WAY S. SEATTLE, WA 98168	VISTA ID#:	270233
		Distance/Direction:	0.85 MI / SE
		Plotted as:	Point

Map ID

9

SPL - State Equivalent Priority List / SRC# 2406		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	NOT AVAILABLE		
Lead Agency:	NOT AVAILABLE		
State Status:	INDEPENDENT REMEDIAL ACTION		
Pollutant 1:	EPA PRIORITY POLLUTANTS-METALS CYANIDE		
Pollutant 2:	UNKNOWN		
Pollutant 3:	UNKNOWN		
Fields Not Reported:	Status		

DFT 002335



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UNMAPPED SITES

VISTA Address*:	MT OLIVET LANDFILL WA	VISTA ID#:	4287769
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		RUBBLE FILL (DEMO,ETC)	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

VISTA Address*:	NORTH SEATTLE WA	VISTA ID#:	4287783
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

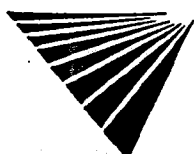
VISTA Address*:	ALGONA TRANSFER STATION WA	VISTA ID#:	4287548
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

VISTA Address*:	PACIFIC COAST COAL COMPANY WA	VISTA ID#:	4287805
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		SPECIAL WASTE	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

VISTA Address*:	RABANCO - BLACK RIVER T.S. WA	VISTA ID#:	5165394
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

VISTA Address*:	RABANCO - 3RD LANDER T.S. WA	VISTA ID#:	4287830
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

DFT 002336



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UNMAPPED SITES CONT.

STATE SWLF - Solid Waste Landfill / SRC# 2053	EPA/Agency ID:	N/A
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Agency Address:	SAME AS ABOVE
Facility Type:	TRANSFER STATION
Facility Status:	NOT AVAILABLE
Permit Status:	NOT AVAILABLE

VISTA Address*:	PORT OF SEATTLE PAN AM HANGAR PO BOX 68727 SEATTLE, WA 98168	VISTA ID#:	4266847
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STATE LUST - State Leaking Underground Storage Tank / SRC# 2497	Agency ID:	2826
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Agency Address:	PORT OF SEATTLE PAN AM HANGAR PO BOX 68727 SEATTLE, WA 98168
Tank Status:	NOT AVAILABLE
Media Affected:	SOIL/SAND/LAND
Remedial Action:	NOT AVAILABLE
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)
Remedial Status 2:	NOT AVAILABLE
Fields Not Reported:	Discovery Date, Substance

VISTA Address*:	SEA-TAC PAN AM FUEL FARM PO BOX 68727 SEATTLE, WA 98168	VISTA ID#:	4266848
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STATE LUST - State Leaking Underground Storage Tank / SRC# 2497	Agency ID:	1913
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Agency Address:	SEA-TAC PAN AM FUEL FARM PO BOX 68727 SEATTLE, WA 98168
Tank Status:	NOT AVAILABLE
Media Affected:	SOIL/SAND/LAND
Remedial Action:	NOT AVAILABLE
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED
Remedial Status 2:	NOT AVAILABLE
Fields Not Reported:	Discovery Date, Substance

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497	Agency ID:	4111
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Agency Address:	SEA-TAC PAN AM AV-GAS TANKS PO BOX 68727 SEATTLE, WA 98168
Tank Status:	NOT AVAILABLE
Media Affected:	SOIL/SAND/LAND
Remedial Action:	NOT AVAILABLE
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED
Remedial Status 2:	NOT AVAILABLE
Fields Not Reported:	Discovery Date, Substance

VISTA Address*:	RENTON TRANSFER STATION WA	VISTA ID#:	4287844
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STATE SWLF - Solid Waste Landfill / SRC# 2053	EPA/Agency ID:	N/A
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Agency Address:	SAME AS ABOVE
Facility Type:	TRANSFER STATION
Facility Status:	NOT AVAILABLE
Permit Status:	NOT AVAILABLE

DFT 002337

UNMAPPED SITES CONT.

VISTA Address*:	BOW LAKE TRANSFER STATION WA	VISTA ID#:	4287593
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	TRANSFER STATION		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

VISTA Address*:	CEDAR FALLS DROP BOX SITE WA	VISTA ID#:	4287598
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	RESOURCE RECOVERY (RECYCLING)		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

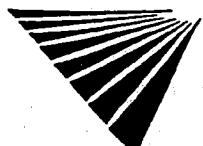
VISTA Address*:	CEDER GROVE COMPOSTING CO WA	VISTA ID#:	4287599
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	COMPOSTING FACILITY		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

VISTA Address*:	CEDAR GROVE COMPOSTING CO WA	VISTA ID#:	4287599
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	RUBBLE FILL (DEMO, ETC)		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

VISTA Address*:	CEDAR HILLS LANDFILL WA	VISTA ID#:	4287600
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	SANITARY LANDFILL/LANDFILL		
Facility Status:	NOT AVAILABLE		
Permit Status:	PERMITTED/LICENSED		

VISTA Address*:	SEA-TAC CRAWFORD AVIATION SEA-TAC INTERNATIONAL AIRPORT SEATTLE, WA 98168	VISTA ID#:	4686193
STATE LUST - State Leaking Underground Storage Tank / SRC# 2394		Agency ID:	4780
Agency Address:	SEA-TAC CRAWFORD AVIATION SEA-TAC INTERNATIONAL AIRPORT SEATTLE, WA 98168-0727		
Tank Status:	NOT AVAILABLE		
Discovery Date:	JUNE 22, 1993		
Media Affected:	SOIL/SAND/LAND		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Substance		

DFT 002338



UNMAPPED SITES CONT.

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497		Agency ID:	4780
Agency Address:	SEA-TAC CRAWFORD AVIATION SEA-TAC INTERNATIONAL AIR SEATAC, WA 98168		
Tank Status:	NOT AVAILABLE		
Media Affected:	SOIL/SAND/LAND		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Discovery Date, Substance		

VISTA Address*:	SKYKOMISH DROP BOX WA	VISTA ID#:	4287859
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	RESOURCE RECOVERY (RECYCLING)		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

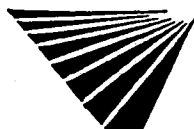
VISTA Address*:	SILVIGROW WA	VISTA ID#:	4287864
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	SLUDGE PROCESSING		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

VISTA Address*:	SOUTH SEATTLE T.S. WA	VISTA ID#:	4287880
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	TRANSFER STATION		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	TRANSFER STATION		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

VISTA Address*:	STEVENS PASS WA	VISTA ID#:	4287885
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	SLUDGE PROCESSING		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

DFT 002339



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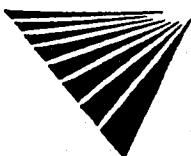
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UNMAPPED SITES CONT.

VISTA Address*:	SW SUBURBAN SEWER DISTRICT WA	VISTA ID#:	4287889
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		COMPOSTING FACILITY	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		RUBBLE FILL (DEMO,ETC)	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	VASHON ISLAND SLUDGE SITE WA	VISTA ID#:	4287906
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		SLUDGE PROCESSING	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	PAN AMERICAN WORLD AIRWAY-SEATAC PO BOX 68727 SEATTLE, WA 98168	VISTA ID#:	5397930
STATE LUST - State Leaking Underground Storage Tank / SRC# 2394		Agency ID:	1913
Agency Address:		PAN AMERICAN WORLD AIRWAY-SEATAC PO BOX 68727 SEATAC, WA 98168-0727	
Tank Status:		NOT AVAILABLE	
Discovery Date:		JANUARY 16, 1991	
Media Affected:		SOIL/SAND/LAND	
Remedial Action:		NOT AVAILABLE	
Remedial Status 1:		CLEANUP IN PROGRESS/REQUIRED	
Remedial Status 2:		NOT AVAILABLE	
Fields Not Reported:		Substance	
VISTA Address*:	WHITE RIVER SYSTEMS WA	VISTA ID#:	4287914
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		EXEMPT	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		SPECIAL WASTE	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

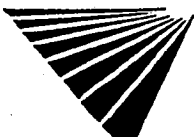
DFT 002340



UNMAPPED SITES CONT.

VISTA Address*:	DUVALL WA	VISTA ID#:	4287663
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		SURFACE APPLICATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		SPECIAL WASTE	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	EUNEMCLAW SLUDGE SITE WA	VISTA ID#:	4287670
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		SLUDGE PROCESSING	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	EASTMONT TRANSFER STATION WA	VISTA ID#:	4287671
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	FACTORIA TRANSFER STATION WA	VISTA ID#:	4287673
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	WASTE MANAGEMENT - RAINIER WA	VISTA ID#:	4287931
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		COMPOSTING FACILITY	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		RUBBLE FILL (DEMO,ETC)	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

DFT 002341



* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 084038-001

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UNMAPPED SITES CONT.

VISTA Address*:	WASTE MANAGEMENT OF SEATTLE WA	VISTA ID#:	4287932
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		RESOURCE RECOVERY (RECYCLING)	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		RESOURCE RECOVERY (RECYCLING)	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	FIRST NORTHEAST T.S. WA	VISTA ID#:	4287686
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	GRO-CO WA	VISTA ID#:	4287694
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		COMPOSTING FACILITY	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		RUBBLE FILL (DEMO, ETC)	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	HOUGHTON TRANSFER STATION WA	VISTA ID#:	4287710
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		TRANSFER STATION	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	
VISTA Address*:	IDDINGS WA	VISTA ID#:	4287713
STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:		SAME AS ABOVE	
Facility Type:		COMPOSTING FACILITY	
Facility Status:		NOT AVAILABLE	
Permit Status:		NOT AVAILABLE	

DFT 002342

* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 084038-001

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UNMAPPED SITES CONT.

STATE SWLF - Solid Waste Landfill / SRC# 2053		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Type:	RUBBLE FILL (DEMO,ETC)		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

VISTA Address*:	SEA-TAC INTERNATIONAL AIRPORT PO BOX 68727 SEATTLE, WA 98168	VISTA ID#:	1839601
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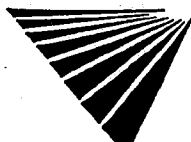
STATE LUST - State Leaking Underground Storage Tank / SRC# 2394		Agency ID:	5617
Agency Address:	SEA-TAC INTERNATIONAL AIRPORT PO BOX 68727 SEATAC, WA 98168		
Tank Status:	NOT AVAILABLE		
Discovery Date:	FEBRUARY 3, 1995		
Media Affected:	SOIL/SAND/LAND		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Substance		

STATE LUST - State Leaking Underground Storage Tank / SRC# 2394		Agency ID:	2826
Agency Address:	SEA-TAC INTERNATIONAL AIRPORT PO BOX 68727 SEATAC, WA 98168		
Tank Status:	NOT AVAILABLE		
Discovery Date:	AUGUST 27, 1990		
Media Affected:	SOIL/SAND/LAND		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONDUCTED (WASHINGTON ONLY)		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Substance		

STATE LUST - State Leaking Underground Storage Tank / SRC# 2394		Agency ID:	4111
Agency Address:	SEATAC AIRPORT PO BOX 68727 SEATTLE, WA 98168		
Tank Status:	NOT AVAILABLE		
Discovery Date:	DECEMBER 29, 1992		
Media Affected:	SOIL/SAND/LAND		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Substance		

STATE LUST - State Leaking Underground Storage Tank / SRC# 2497		Agency ID:	5617
Agency Address:	SEA-TAC AIRPORT FIRE DEPARTMENT PO BOX 68727 SEATAC, WA 98168		
Tank Status:	NOT AVAILABLE		
Media Affected:	SOIL/SAND/LAND		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED		
Remedial Status 2:	NOT AVAILABLE		
Fields Not Reported:	Discovery Date, Substance		

DFT 002343



SITE ASSESSMENT PLUS REPORT

DESCRIPTION OF DATABASES SEARCHED

A) DATABASES SEARCHED TO 1 MILE

NPL
SRC#: 2435

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for NPL was May, 1995.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept of Health and Human Services and the US EPA in order to become an NPL site.

SPL
SRC#: 2406

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Confirmed Contaminated Sites Report was May, 1995.

This database is provided by the Department of Ecology, Toxics Cleanup Program.

SCL
SRC#: 2405

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Suspected Contaminated Sites Report was May, 1995.

This database is provided by the Department of Ecology, Toxics Cleanup Program.

CORRACTS
SRC#: 2465

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for RCRA Corrective Action Sites List was June, 1995.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

RCRA-TSD
SRC#: 2465

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for RCRIS was June, 1995.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

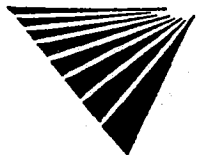
B) DATABASES SEARCHED TO 1/2 MILE

CERCLIS
SRC#: 2509

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS was March, 1995.

The CERCLIS List contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, remedial, removal and community relations activities or events at the site, financial funding information for the events, and unrestricted enforcement activities.

DFT 002344



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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NFRAP
SRC#: 2510 VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS was March, 1995.

NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

SWLF
SRC#: 2053 VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Municipal Solid Waste Facilities was September, 1994.

This database is provided by the Department of Ecology, Solid Waste Services Program.

LUST
SRC#: 2394 VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Leaking Underground Storage Tank List was April, 1995.

This database is provided by the Department of Ecology, Toxics Cleanup Program.

LUST
SRC#: 2497 VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Northwest Region Leaking Underground Storage Tank Site List was July, 1995.

This database is provided by the Department of Ecology, Northwest Regional Office.

C) DATABASES SEARCHED TO 1/4 MILE

RCRA-Viols/En
SRC#: 2465 VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for RCRIS was June, 1995.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Violators are facilities which have been cited for RCRA Violations at least once since 1980. RCRA Enforcements are enforcement actions taken against RCRA violators.

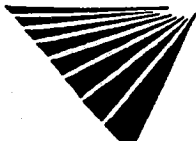
UST's
SRC#: 2395 VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for Underground Storage Tank Database was March, 1995.

This database is provided by the Department of Ecology, Solid Hazardous Waste Program; Caution-Many states do not require registration of heating oil tanks, especially those used for residential purposes.

TRIS
SRC#: 2467 VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for TRIS was May, 1995.

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as SARA Title III) of 1986 requires the EPA to establish an inventory of Toxic Chemicals emissions from certain facilities(Toxic Release Inventory System). Facilities subject to this reporting are required to complete a Toxic Chemical Release Form(Form R) for specified chemicals.

DFT 002345



D) DATABASES SEARCHED TO 1/8 MILE

**ERNS
SRC#: 2255**

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for ERNS was March, 1995.

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of transportation. A search of the database records for the period October 1986 through September 1994 revealed the following information regarding reported spills of oil or hazardous substances in the stated area.

**RCRA-LgGen
SRC#: 2465**

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for RCRIS was June, 1995.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

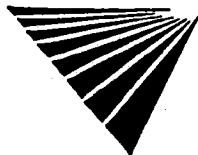
**RCRA-SmGen
SRC#: 2465**

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for RCRIS was June, 1995.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small and Very Small generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.

End of Report

DFT 002346



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 084038-001

Date of Report: September 13, 1995

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APPENDIX B
SITE-SPECIFIC CHEMICAL INVENTORY

August 26, 1994
9-4122-MLB94-048

RECEIVED

AUG 31 1994

Sabey Corp.

Mr. Phil Birk
Sabey Corporation
101 Elliott Ave. W., Suite 330
Seattle, Washington 98119

Dear Mr. Birk:

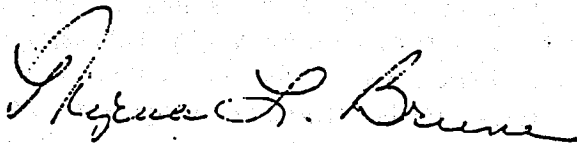
Subject: Hazardous Waste Management Plan

Reference: Telecon R. Birk to M. Brune, August 19, 1994

In response to your request, enclosed is a summation of the method used at the Oxbow Site for hazardous materials storage, use and distribution.

Should you have any questions, please do not hesitate to call.

Sincerely,



Myrna L. Brune

Enclosure

cc: C. Bach

DFT 002348

OXBOW SITE HAZARDOUS MATERIALS STORAGE USE AND DISTRIBUTION

The following information summarizes activities from 1987 through 1994 at the Oxbow Site that utilized hazardous materials. A brief description of the most significant uses and associated manufacturing process is provided.

Hazardous Material Control and Distribution:

Hazardous materials used at the Oxbow Site are controlled by the Hazardous Materials Management Program. This program has been in place since 1991. Hazardous materials required for use at the Oxbow Site are initially received and stored at the Boeing Developmental Center 9-04 building. Hazardous materials are delivered on an as-needed basis to shop cabinets at Oxbow. Small quantities of hazardous materials are stored in cabinets throughout the site.

Before 1991, hazardous materials were stored in drums or containers in the hazardous material storage sheds (see description below) or within the buildings.

Past and Present Operations Utilizing Hazardous Materials:

7-250 Building:

The 7-250 building was used primarily for manufacturing activities. A cafeteria is located in the northeast corner of the building. Manufacturing activities included composite aircraft parts riveting and assembly, wire bundle assembly, tooling fabrication (plaster and plastics), metal decal fabrication and small parts painting. A wood shop was also located within this building. Hazardous materials used within this building were stored in drums or storage cabinets and included materials such as sealants, paints, solvents (wiping), developers, potting compounds, Freon, oils, and resins. All hazardous waste generated in this building were accumulated in 55 gallon drums or 5 gallon cans.

A paint spray booth used to paint small airplane parts utilized dry filters to capture paint particulates. The Metal Decal shop used developers, fixers and a small self contained vapor degreaser (installed for approximately two years) for metal decal production. Freon was used in a riveting machine and for cooling drill bits. Wiping solvents, sealants and potting compounds were manually applied to airplane parts. Resins were used to build composite tooling.

7-251 Building

The 7-251 building was used for offices and meeting rooms. Hazardous materials used in this building included standard office supplies, ammonia for a blueprint copier, and a developer for a photo reproduction machine.

7-252 Building

DFT 002349

The 7-252 building was used for aircraft parts assembly, small parts painting, waterjet metal cutting, tooling fabrication (plaster and plastics), R&D Chemical Etching (Chem Etch) and welding operations. A wood shop was located on the west end of the building. The building is currently used as a welding shop and is used for fabricating airplane parts.

Hazardous materials were stored in cabinets and drums within the building. Hazardous materials used in the building included paints, solvents (wiping), resins, and adhesives. With the exception of the Chem Etch operation, all waste was accumulated in 55 gallon drums or 5 gallon containers.

The Chem Etch facility initially utilized a portable Baker tank located in the parking lot to store waste rinse water. This rinse water was later sent to the sanitary sewer system. Concentrated chemicals (cupric chloride/sodium chloride, corrosive photo resist stripper) used in the Chem Etch facility was returned to 55 gallon drums after use. Two paint spray booths were used to paint small parts and utilized dry filters to capture paint particulates. Similar solvent wiping, sealant application, and resin application methods were used as in the 7-250 building.

7-253 Building

The 7-253 building is a mechanical room located on the north end of the 7-250 building. Hazardous materials including lubricating oil and cooling tower treatment chemicals were stored in 55 gallon drums on containment pans. A 500 gallon above ground reserve fuel oil tank is located within a concrete secondary containment berm in the boiler room.

Hazardous Material Storage Sheds

Portable hazardous material storage buildings with secondary containment systems located on the west side of the 7-252 building were used to store hazardous waste generated from shops at the Oxbow Site. 55 gallon drums and 5 gallon containers were accumulated in this building until shipped off-site for disposal. Some of the hazardous materials used at the Oxbow Site were stored in this building prior to implementation of the Hazardous Materials Management Program.

Parking and Yard Areas

The parking areas were used for storage of tooling and supplies. No underground storage tanks were installed at this site. A propane tank was located at the west end of the site for refueling forklifts.

DFT 002350

APPENDIX C

LABORATORY DATA REPORT FOR ASBESTOS SAMPLES

DFT 002351

Clayton Environmental Consultants

LABFAX

Log #15323

ANALYZED BY Barbara Gloyd

ON 10/4/95

Job / PO # 51362-007-00

Client: ICF Kaiser International, Inc.

Location: Oxbow Park

SAMPLE #: AB-252-001

LAB#
15323

SAMPLE LOCATION: Wall, bldg. 252

SOURCE: Plaster

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
				Calcite Filler & Binder	95
				Paint	5

Description: Off-white compacted sparkling powdery material with pale gray paint

Note:

SAMPLE #: AB-252-002

LAB#
15323

SAMPLE LOCATION: Bldg. 252

SOURCE: Sheetrock

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	10	Gypsum Filler & Binder	89
		Glass Fiber	1		

Description: White chalky material with paper backing

Note:

SAMPLE #: AB-252-003

LAB#
15323

SAMPLE LOCATION: Between concrete slabs, bldg. 252

SOURCE: Foam Cushion

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	Trace	Polyurethane Foam	100

Description: Dull gold soft spongy material

Note:

DFT 002352

Laboratory Data Sheet is for lab use and faxing only. The final report will follow in the mail.

Initiated by: BGA 10-4-95

Clayton Environmental Consultants

LABFAX

Log #15323

ANALYZED BY Barbara Gloyd

ON 10/4/95

Job / PO # 51362-007-00

Client: ICF Kaiser International, Inc.

Location: Oxbow Park

SAMPLE # AB-252-004

LAB# 15323

SAMPLE LOCATION: Between concrete pillars, bldg. 252

SOURCE: Caulking

No Asbestos Detected

HOMOGENEOUS

Asbestos

Asbestos %

non-asbestos
fibers% other
fibersnonfibrous
components

nonfibrous %

Calcite/Clay Filler & Binder
Paint

99

1

Description: White hard rubbery material with white paint

Note:

SAMPLE # AB-252-005

LAB# 15323

SAMPLE LOCATION: From roof air belt rooms, bldg. 252

SOURCE: Black Mat/Insulation

No Asbestos Detected

Layers Homogenized for Analysis

LAYERED

Asbestos

Asbestos %

non-asbestos
fibers% other
fibersnonfibrous
components

nonfibrous %

Mineral Wool
Synthetic

77

20

Filler & Binder

3

Description: Black woven coated fibrous layer with gold fluffy fibrous material

Note:

SAMPLE # AB-252-006

LAB# 15323

SAMPLE LOCATION: Roof, bldg. 252

SOURCE: Roofing Material

No Asbestos Detected

HOMOGENEOUS

Asbestos

Asbestos %

non-asbestos
fibers% other
fibersnonfibrous
components

nonfibrous %

Cellulose
Glass Fiber

Trace

3

Asphalt Filler & Binder
Sand

72

25

Description: Black fibrous asphaltic material with white sand

Note:

DFT 002353

Laboratory Data Sheet is for lab use and faxing only. The final report will follow in the mail.

10/04/1995 10:22 2007034103 PAGE 04
Clayton Environmental Consultants

LABFAX

Log #15323

ANALYZED BY Barbara Gloyd

ON 10/4/95

Job / PO # 51362-007-00

Client: ICF Kaiser International, Inc.

Location: Oxbow Park

SAMPLE # AB-252-007

LAB# 15323

SAMPLE LOCATION: False ceiling, bldg. 252

SOURCE: Ceiling Panel

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	34	Perlite	30
		Mineral Wool	35	Paint	1

Description: Light gray compressed fibrous material with white paint

Note:

SAMPLE # AB-252-008

LAB# 15323

SAMPLE LOCATION: Bldg. 252

SOURCE: Baseboard

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
				Vinyl Filler and Binder	100

Description: Gray hard flat rubbery material

Note:

SAMPLE # AB-252-009A

LAB# 15323A

SAMPLE LOCATION: Bldg. 252

SOURCE: Baseboard Mastic

LAYERED SAMPLE: NESHAP and AHERA regulations require layers be analyzed and reported separately.

No Asbestos Detected

LAYER 1

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
				Filler & Binder	100

Description: Brown brittle mastic

Note:

DFT 002354

Laboratory Data Sheet is for lab use and faxing only.

Verified by: 10-4-95

The final report will follow in the mail.

Clayton Environmental Consultants **LABFAX**

Log #15323

ANALYZED BY Barbara Gloyd

ON 10/4/95

Job / PO #51362-007-00

Client: ICF Kaiser International, Inc.

Location: Oxbow Park

SAMPLE # AB-252-009B **LAB#** 153232 **SAMPLE LOCATION:** Bldg. 252
SOURCE: Sheetrock/Joint Compound
LAYERED SAMPLE: NESHAP and AHERA regulations allow these layers to be composited together.

No Asbestos Detected

LAYER 2

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	30	Calcite Filler & Binder	50
				Gypsum Filler & Binder	20

Description: White chalky material with paper backing & white sparkling
compacted powdery material

Note:

SAMPLE # AB-252-010 **LAB#** 1532310 **SAMPLE LOCATION:** Bldg. 252
SOURCE: Sheetrock/Joint Compound
LAYERED SAMPLE: NESHAP and AHERA regulations allow these layers to be composited together.

No Asbestos Detected

LAYER 2

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	30	Calcite Filler & Binder	50
				Gypsum Filler & Binder	20

Description: White chalky material with paper backing & white sparkling
compacted powdery material

Note:

SAMPLE # AB-252-011 **LAB#** 1532311 **SAMPLE LOCATION:** On fiberglass insulation, bldg. 252
SOURCE: Tape/Backing

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	5	Vinyl Filler and Binder	78
		Synthetic	1	Filler & Binder	10
		Mineral Wool	1	Paint	5
		Hair	Trace		

Description: White vinyl with clear sticky adhesive

Note:

DFT 002355

Clayton Environmental Consultants

LABFAX

Log #15323

Client: ICF Kaiser International, Inc.

ANALYZED BY Barbara Gloyd

Location: Oxbow Park

ON 10/4/95

Job / PO #51362-007-00

SAMPLE #: AB-252-012

LAB# 15323.12

SAMPLE LOCATION: On fiberglass insulation, bldg. 252

SOURCE: Foil Pipe Wrap

No Asbestos Detected

Layers Homogenized for Analysis

LAYERED

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	50	Foil	30
		Glass Fiber	5	Filler & Binder	10
				Paint	5

Description: White paper layers with silver foil layer, woven silky fibers & white paint

Note:

SAMPLE #: AB-252-013

LAB# 15323.13

SAMPLE LOCATION: Pipe elbow, bldg. 252

SOURCE: Pipe Elbow Wrap

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	Trace	Cork	35
				Asphalt Filler & Binder	65

Description: Black soft gooey fibrous asphaltic material

Note:

SAMPLE #: AB-250-014

LAB# 15323.14

SAMPLE LOCATION: Bldg. 250

SOURCE: Spray-on Fire Insulation

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Mineral Wool	90	Filler & Binder	10

Description: White soft fluffy fibrous lumpy material

Note:

DFT 002356

Laboratory Data Sheet is for lab use and faxing only. The final report will follow in the mail.
Verified by: 10/10/95

Clayton Environmental Consultants **LABFAX**

Log #15323
ANALYZED BY Barbara Gloyd
ON 10/4/95
Job / PO #51362-007-00

Client: ICF Kaiser International, Inc.

Location: Oxbow Park

SAMPLE # AB-250-015

LAB# 15323.15

SAMPLE LOCATION: Bldg. 250, upstairs wall area

SOURCE: Wallpaper

No Asbestos Detected

Layers Homogenized for Analysis

LAYERED

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	50	Vinyl Filler and Binder	30
		Glass Fiber	Trace	Gypsum Filler & Binder	20

Description: White vinyl layer with paper layer & white chalky material

Note:

SAMPLE # AB-250-016

LAB# 15323.16

SAMPLE LOCATION: Bldg. 250, boiler room wallboard

SOURCE: Wallboard Tape

No Asbestos Detected

Layers Homogenized for Analysis

LAYERED

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	96	Filler & Binder	3
				Calcite Filler & Binder	1

Description: White fibrous paper with pink adhesive & white sparkling powder

Note:

SAMPLE # AB-250-017A

LAB# 15323.17A

SAMPLE LOCATION: Bldg. 250

SOURCE: Floor Tile

LAYERED SAMPLE: NESHAP and AHERA regulations require layers be analyzed and reported separately.

No Asbestos Detected

LAYER 1

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
				Vinyl Filler and Binder	100

Description: White & gray streaked speckled tile

Note:

DFT 002357

Clayton Environmental Consultants LABFAX

Log #15323

Client: ICF Kaiser International, Inc.

ANALYZED BY Barbara Gloyd

ON 10/4/95

Location: Oxbow Park

Job / PO #51362-007-00

LAB# 15323-17B SAMPLE # AB-250-017B SAMPLE LOCATION: Bldg. 250

SOURCE: Floor Tile Mastic

No Asbestos Detected

LAYER 2

Asbestos

Asbestos %

non-asbestos
fibers% other
fibersnonfibrous
components

nonfibrous %

Cellulose

Trace

Asphalt Filler & Binder

93

Synthetic

7

Description: Black asphaltic mastic

Note:

LAB# 15323-18 SAMPLE # AB-250-018

SAMPLE LOCATION: Bldg. 250

SOURCE: Baseboard

No Asbestos Detected

HOMOGENEOUS

Asbestos

Asbestos %

non-asbestos
fibers% other
fibersnonfibrous
components

nonfibrous %

Vinyl Filler and Binder

100

Description: Black hard flat rubbery material

Note:

LAB# 15323-19 SAMPLE # AB-250-019

SAMPLE LOCATION: Bldg. 250

SOURCE: Baseboard Mastic

No Asbestos Detected

HOMOGENEOUS

Asbestos

Asbestos %

non-asbestos
fibers% other
fibersnonfibrous
components

nonfibrous %

Cellulose

Trace

Calcite Filler & Binder

100

Description: Off-white stiff flexible mastic with trace brown brittle mastic

Note:

DFT 002358

Laboratory Data Sheet is for lab use and faxing only.

The final report will follow in the mail.

Verified by: [Signature] 10-4-95

Clayton Environmental Consultants

LABFAX

Log #15323

ANALYZED BY Barbara Gloyd

ON 10/4/95

Job / PO #51362-007-00

Client: ICF Kaiser International, Inc.

Location: Oxbow Park

SAMPLE # AB-250-020

LAB# 153120

SAMPLE LOCATION: Bldg. 250 (duplicate of 017 tile)

SOURCE: Floor Tile

No Asbestos Detected

Layers Homogenized for Analysis

LAYERED

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
				Vinyl Filler and Binder	99
				Filler & Binder	1

Description: White & gray streaked swirled tile with trace gold mastic

Note: Insufficient mastic to analyze separately

SAMPLE # AB-250-021

LAB# 153121

SAMPLE LOCATION: Bldg. 250

SOURCE: Sheet Vinyl

No Asbestos Detected

Layers Homogenized for Analysis

LAYERED

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	3	Diatoms	1
		Synthetic	4	Filler & Binder	11
		Glass Fiber	1	Vinyl Filler and Binder	80

Description: White, pink & beige speckled vinyl with cream-colored fibrous backing & mastic with blue coating

Note:

SAMPLE # AB-250-022

LAB# 153122

SAMPLE LOCATION: Bldg. 250

SOURCE: Floor Tile

No Asbestos Detected

HOMOGENEOUS

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
				Vinyl Filler and Binder	100

Description: White & cream-colored streaked tile

Note:

DFT 002359

Clayton Environmental Consultants

LABFAX

Log #15323

ANALYZED BY Barbara Gloyd

Client: ICF Kaiser International, Inc.

ON 10/4/95

Location: Oxbow Park

Job / PO #51362-007-00

SAMPLE # AB-250-023

LAB # 10111

SAMPLE LOCATION: Bldg. 250

SOURCE: Sheet Vinyl

No Asbestos Detected

Layers Homogenized for Analysis

LAYERED

Asbestos	Asbestos %	non-asbestos fibers	% other fibers	nonfibrous components	nonfibrous %
		Cellulose	1	Diatoms	1
		Synthetic	5	Filler & Binder	7
		Glass Fiber	1	Vinyl Filler and Binder	85

Description: Gray, white & tan mosaic-patterned vinyl with light gray fibrous backing & mastic

Note:

DFT 002360

Laboratory Data Sheet is for lab use and faxing only.

The final report will follow in the mail.

Verified by:

PBM 10-4-95

APPENDIX D

LABORATORY DATA REPORT FOR DRINKING WATER SAMPLES

DFT 002361

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

TRANSMITTAL MEMORANDUM

ICF / RECEIVED

OCT 11 1995

PROJECT # _____

DATE: October 6, 1995

TO: Robert Taaffe
ICF Kaiser Engineers

PROJECT: Oxbow Park

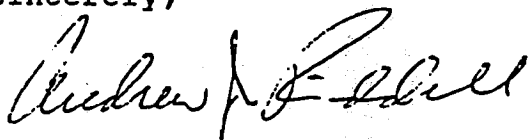
LABORATORY NUMBER: 51878

Enclosed are the test results for one sample received at Sound Analytical Services on October 4, 1995.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (206) 922-2310.

Sincerely,



Andrew J. Riddell
Project Manager

AJR:tm

DFT 002362

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: ICF Kaiser Engineers

Date: October 6, 1995

Report On: Analysis of Water

Lab No.: 51878

IDENTIFICATION:

Sample received on 10-04-95

Project: Oxbow Park

ANALYSIS:

Lab Sample No. 51878-1

Client ID: MW-250-1

ICP Metals Per EPA Method 6010

Date Analyzed: 10-5-95

Units: mg/L

<u>Parameter</u>	<u>Result</u>	<u>PQL</u>
Antimony	ND	0.15
Arsenic	ND	0.15
Beryllium	ND	0.005
Cadmium	0.033	0.010
Chromium	0.12	0.01
Copper	0.44	0.025
Lead	0.12	0.05
Nickel	0.09	0.04
Selenium	ND	0.20
Silver	ND	0.01
Thallium	ND	0.15
Zinc	0.42	0.02

Mercury By Cold Vapor AA Per EPA Method 7470

Date Analyzed: 10-4-95

Units: mg/L

<u>Parameter</u>	<u>Result</u>	<u>PQL</u>
Mercury	0.0006	0.0002

ND - Not Detected

PQL - Practical Quantitation Limit

DFT 002363

SOUND ANALYTICAL SERVICES, INC.

Client Name	ICF Kaiser Engineers
Client ID:	MW-250-1
Lab ID:	51878-01
Date Received:	10/4/95
Date Prepared:	10/4/95
Date Analyzed:	10/4/95
% Solids	

Volatile Organics by USEPA Method 8260

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	108		88	118
Toluene-d8	95		83	111
4-Bromofluorobenzene	102		86	112

Analyte	Result (ug/L)	PQL	Flags
Dichlorodifluoromethane	ND	5	
Chloromethane	ND	5	
Bromomethane	ND	5	
Vinyl Chloride	ND	5	
Chloroethane	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	2.5	
Methylene Chloride	1.5	2.5	JB1
trans-1,2-Dichloroethene	ND	2.5	
1,1-Dichloroethane	ND	2.5	
cis-1,2-Dichloroethene	ND	2.5	
2,2-Dichloropropane	ND	2.5	
Bromochloromethane	ND	2.5	
Chloroform	1.9	2.5	JB1
1,1,1-Trichloroethane	ND	2.5	
1,1-Dichloropropene	ND	2.5	
Carbon Tetrachloride	ND	2.5	
Benzene	ND	2.5	
1,2-Dichloroethane	ND	2.5	
Trichloroethene	ND	2.5	
1,2-Dichloropropane	ND	2.5	
Dibromomethane	ND	2.5	
Bromodichloromethane	ND	2.5	
Toluene	ND	2.5	
1,1,2-Trichloroethane	ND	2.5	
Tetrachloroethene	ND	2.5	

DFT 002364

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 8260 data for 51878-01 continued...

Analyte	Result (ug/L)	PQL	Flags
1,3-Dichloropropane	ND	2.5	
Dibromochloromethane	ND	2.5	
1,2-Dibromoethane	ND	2.5	
Chlorobenzene	ND	2.5	
1,1,1,2-Tetrachloroethane	ND	2.5	
Ethylbenzene	ND	2.5	
m,p-Xylene	ND	2.5	
o-Xylene	ND	2.5	
Styrene	ND	2.5	
Bromoform	ND	2.5	
Isopropylbenzene	ND	2.5	
Bromobenzene	ND	2.5	
1,1,2,2-Tetrachloroethane	ND	2.5	
1,2,3-Trichloropropane	ND	2.5	
n-Propylbenzene	ND	2.5	
2-Chlorotoluene	ND	2.5	
4-Chlorotoluene	ND	2.5	
1,3,5-Trimethylbenzene	ND	2.5	
t-Butylbenzene	ND	2.5	
1,2,4-Trimethylbenzene	ND	2.5	
sec-Butylbenzene	ND	2.5	
1,3-Dichlorobenzene	ND	2.5	
4-Isopropyltoluene	ND	2.5	
1,4-Dichlorobenzene	ND	2.5	
1,2-Dichlorobenzene	ND	2.5	
n-Butylbenzene	ND	2.5	
1,2-Dibromo-3-chloropropane	ND	2.5	
1,2,4-Trichlorobenzene	ND	2.5	
Hexachlorobutadiene	ND	2.5	
Naphthalene	ND	2.5	
1,2,3-Trichlorobenzene	ND	2.5	

DFT 002365

SOUND ANALYTICAL SERVICES, INC.

Client Name ICF Kaiser Engineers
Client ID: MW-250-1
Lab ID: 51878-01
Date Received: 10/4/95
Date Prepared: 10/4/95
Date Analyzed: 10/5/95
% Solids -

Extended Diesel Range by WTPH-D Modified

Surrogate o-Terphenyl	% Recovery 88	Flags	Recovery Limits	
			Low 50	High 150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC32)	2.1	0.71	X2

DFT 002366

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SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Metals

Client: ICF Kaiser Engineers
Lab No: 51878q1
Units: mg/L

Date Analyzed: 10-5-95

METHOD BLANK

Parameter	Result	PQL
Antimony	ND	0.15
Arsenic	ND	0.15
Beryllium	ND	0.005
Cadmium	ND	0.010
Chromium	ND	0.01
Copper	ND	0.025
Lead	ND	0.05
Nickel	ND	0.04
Selenium	ND	0.20
Silver	ND	0.01
Thallium	ND	0.15
Zinc	ND	0.02

ND - Not Detected

PQL - Practical Quantitation Limit

DFT 002367

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT

Metals

Client: ICF Kaiser Engineers
Lab No: 51878q1
Units: mg/L

Date Analyzed: 10-5-95

DUPLICATE

Dup No. 51878-1

Parameter	Sample Result	Duplicate Result	RPD	Flag
Antimony	ND	ND	NC	
Arsenic	ND	ND	NC	
Beryllium	ND	ND	NC	
Cadmium	0.033	0.033	0.0	
Chromium	0.12	0.12	0.0	
Copper	0.44	0.45	2.2	
Lead	0.12	ND	NC	X4a
Nickel	0.09	0.09	0.0	
Selenium	ND	ND	NC	
Silver	ND	ND	NC	
Zinc	0.42	0.42	0.0	

NC = Not Calculated

RPD = Relative Percent Difference

DFT 002368

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT

Metals

Client: ICF Kaiser Engineers
Lab No: 51878ql
Units: mg/L

Date Analyzed: 10-5-95

MATRIX SPIKE

MS No. 51878-1

Parameter	Sample Result	MS Result	MS Amount	%R	Flag
Antimony	ND	0.47	0.50	94	
Arsenic	ND	1.9	2.0	95	
Beryllium	ND	0.055	0.050	110	
Cadmium	0.033	0.086	0.050	106	
Chromium	0.12	0.32	0.20	100	
Copper	0.44	0.71	0.25	108	
Lead	0.12	0.55	0.50	86	
Nickel	0.09	0.60	0.50	102	
Selenium	ND	2.0	2.0	100	
Silver	ND	0.05	0.05	100	
Zinc	0.42	0.91	0.50	98	

MS = Matrix Spike

%R = Percent Recovery

DFT 002369

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SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Mercury

Client: ICF Kaiser Engineers
Lab No: 51878q2
Units: mg/L

Date Analyzed: 10-4-95

METHOD BLANK

Parameter	Result	PQL
Mercury	ND	0.0002

ND - Not Detected
PQL - Practical Quantitation Limit

DUPLICATE

Dup No. 51878-1

Parameter	Sample Result	Duplicate Result	RPD	Flag
Mercury	0.0006	0.0006	0.0	

NC = Not Calculated
RPD = Relative Percent Difference

MATRIX SPIKE

MS No. 51878-1

Parameter	Sample Result	MS Result	MS Amount	%R	Flag
Mercury	0.0006	0.0027	0.0020	105	

MS = Matrix Spike

%R = Percent Recovery

DFT 002370

SOUND ANALYTICAL SERVICES, INC.

Lab ID:
Date Received:
Date Prepared:
Date Analyzed:
% Solids

Method Blank - T1560

10/4/95
10/4/95

Volatile Organics by USEPA Method 8260

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	104		88	118
Toluene-d8	97		83	111
4-Bromofluorobenzene	101		86	112

Analyte	Result (ug/L)	PQL	Flags
Dichlorodifluoromethane	ND	5	
Chloromethane	ND	5	
Bromomethane	ND	5	
Vinyl Chloride	ND	5	
Chloroethane	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	2.5	
Methylene Chloride	10	2.5	B1
trans-1,2-Dichloroethene	ND	2.5	
1,1-Dichloroethane	ND	2.5	
cis-1,2-Dichloroethene	ND	2.5	
2,2-Dichloropropane	ND	2.5	
Bromochloromethane	ND	2.5	
Chloroform	1.6	2.5	J B1
1,1,1-Trichloroethane	ND	2.5	
1,1-Dichloropropene	ND	2.5	
Carbon Tetrachloride	ND	2.5	
Benzene	ND	2.5	
1,2-Dichloroethane	ND	2.5	
Trichloroethene	ND	2.5	
1,2-Dichloropropane	ND	2.5	
Dibromomethane	ND	2.5	
Bromodichloromethane	ND	2.5	
Toluene	ND	2.5	
1,1,2-Trichloroethane	ND	2.5	
Tetrachloroethene	ND	2.5	

DFT 002371

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 8260 data for T1560 continued...

Analyte	Result (ug/L)	PQL	Flags
1,3-Dichloropropane	ND	2.5	
Dibromochloromethane	ND	2.5	
1,2-Dibromoethane	ND	2.5	
Chlorobenzene	ND	2.5	
1,1,1,2-Tetrachloroethane	ND	2.5	
Ethylbenzene	ND	2.5	
m,p-Xylene	ND	2.5	
o-Xylene	ND	2.5	
Styrene	ND	2.5	
Bromoform	ND	2.5	
Isopropylbenzene	ND	2.5	
Bromobenzene	ND	2.5	
1,1,2,2-Tetrachloroethane	ND	2.5	
1,2,3-Trichloropropane	ND	2.5	
n-Propylbenzene	ND	2.5	
2-Chlorotoluene	ND	2.5	
4-Chlorotoluene	ND	2.5	
1,3,5-Trimethylbenzene	ND	2.5	
t-Butylbenzene	ND	2.5	
1,2,4-Trimethylbenzene	ND	2.5	
sec-Butylbenzene	ND	2.5	
1,3-Dichlorobenzene	ND	2.5	
4-Isopropyltoluene	ND	2.5	
1,4-Dichlorobenzene	ND	2.5	
1,2-Dichlorobenzene	ND	2.5	
n-Butylbenzene	ND	2.5	
1,2-Dibromo-3-chloropropane	ND	2.5	
1,2,4-Trichlorobenzene	ND	2.5	
Hexachlorobutadiene	ND	2.5	
Naphthalene	ND	2.5	
1,2,3-Trichlorobenzene	ND	2.5	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: T1560
Date Prepared: 10/4/95
Date Analyzed: 10/4/95
QC Batch ID: T1560

Volatile Organics by USEPA Method 8260

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % Rec.	RPD	Flag
1,1-Dichloroethene	0	25	24	96	24	98	2.5	
Benzene	0	25	27	108	28	110	1.8	
Trichloroethene	0	25	26	106	27	109	2.8	
Toluene	0	25	26	106	28	111	4.6	
Chlorobenzene	0	25	27	106	29	115	8.1	

SOUND ANALYTICAL SERVICES, INC.

Lab ID: Method Blank - DI516
Date Received: -
Date Prepared: 10/4/95
Date Analyzed: 10/5/95
% Solids: -

Extended Diesel Range by WTPH-D Modified

Surrogate o-Terphenyl	% Recovery 99	Flags	Recovery Limits	
			Low 50	High 150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC32)	ND	0.63	

DFT 002374

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: DI516
Date Prepared: 10/4/95
Date Analyzed: 10/5/95
QC Batch ID: DI516

Extended Diesel Range by WTPH-D Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
Diesel (>nC12-nC32)	0	2.5	2.7	109	2.5	99	9.8	

SOUND ANALYTICAL SERVICES, INC.

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 • TELEPHONE 206-922-2310 • FAX 206-922-5047

DATA QUALIFIERS AND ABBREVIATIONS

- J:** The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- BI:** This analyte was also detected in the associated method blank. The reported sample results have been adjusted for moisture, final extract volume, and/or dilutions performed during extract preparation. The analyte concentration was evaluated prior to sample preparation adjustments, and was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2:** This analyte was also detected in the associated method blank. However, the analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- E:** The concentration of this analyte exceeded the instrument calibration range.
- D:** The reported result for this analyte is calculated based on a secondary dilution factor.
- X1:** Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.
- X2:** Contaminant does not appear to be "typical" product. Further testing is suggested for identification.
- Identification and quantification of peaks was complicated by matrix interference; GC/MS confirmation is recommended.
- X4:** RPD for duplicates outside advisory QC limits. Sample was re-analyzed with similar results.
- X4a:** RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5:** Matrix spike was diluted out during analysis.
- X6:** Recovery of matrix spike outside advisory QC limits. Sample was re-analyzed with similar results.
- X7:** Recovery of matrix spike outside advisory QC limits. Matrix interference is indicated by blank spike recovery data.
- X7a:** Recovery and/or RPD values for MS/MSD outside advisory QC limits due to high contaminant levels.
- X8:** Surrogate was diluted out during analysis.
- X9:** Surrogate recovery outside advisory QC limits due to matrix composition.
- N:** See analytical narrative.
- N:** Not Detected
- PQL:** Practical Quantitation Limit
- MCL:** Maximum Contaminant Level

DFT 002376

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

[illegible]

APPENDIX E

LABORATORY DATA REPORT FOR MONITORING WELL SAMPLES

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

TRANSMITTAL MEMORANDUM

ICF / RECEIVED

SEP 28 1995

PROJECT: _____

DATE: September 26, 1995

TO: Robert Taaffe
ICF Kaiser Engineers

PROJECT: Oxbow Park

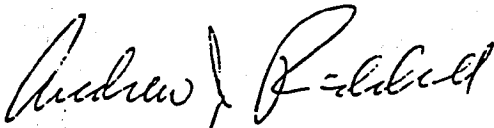
LABORATORY NUMBER: 51616

Enclosed are the test results for six samples received at Sound Analytical Services on September 22, 1995.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (206) 922-2310.

Sincerely,



Andrew J. Riddell
Project Manager

AJR:tm

DFT 002379

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: ICF Kaiser Engineers

Date: September 26, 1995

Report On: Analysis of Water

Lab No.: 51616

IDENTIFICATION:

Samples received on 09-22-95

Project: Oxbow Park

ANALYSIS:

Lead Per EPA Method 200.8

Date Analyzed: 9-25-95

Units: mg/L

<u>Lab Sample No.</u>	<u>Client ID</u>	<u>Result</u>	<u>PQL</u>
51616-1	TW-1	0.009	0.003
51616-2	TW-2	0.012	0.003
51616-3	TW-3	0.012	0.003
51616-4	TW-4	0.039	0.003
51616-5	TW-5	0.009	0.003
51616-6	TW-6	0.016	0.003

PQL - Practical Quantitation Limit

DFT 002380

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 • TELEPHONE (206)922-2310 • FAX (206)922-5047

QUALITY CONTROL REPORT

Lead

Client: ICF Kaiser Engineers
Lab No: 51616qc
Units: mg/L

Date Analyzed: 9-25-95

METHOD BLANK

Parameter	Result	PQL
Lead	ND	0.003

ND - Not Detected

PQL - Practical Quantitation Limit

DUPLICATE

Dup No. 51617-1 Batch QC

Parameter	Sample Result	Duplicate Result	RPD	Flag
Lead	0.061	0.060	1.7	

NC = Not Calculated

RPD = Relative Percent Difference

MATRIX SPIKE

MS No. 51617-1 Batch QC

Parameter	Sample Result	MS Result	MS Amount	%R	Flag
Lead	0.061	0.94	1.0	88	

MS = Matrix Spike

%R = Percent Recovery

DFT 002381

3



UST PARAMETERS
CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: ICF Kaiser		ANALYSIS REQUESTED: Specify State WA																						
PROJECT NAME: Oxbow Park																								
CONTACT: Robert TAAFFE																								
PHONE NO: 206 521-5962																								
LAB #	SAMPLE I.D.	DATE	TIME	MATRIX	# of Containers	HClD	TPH-G	TPH-D	TPH 418.1	BTEX	TPH-G / BTEX	TPH 8015M	Total Lead	TCLP Lead	PCB's	PAH's	Phenols	Halogenated Volatiles EPA 801/8010	Aromatic Volatiles EPA 802/8020	Volatile Organics EPA 824/8240 GC/MS	Semi-volatiles EPA 825/8270 GC/MS	Metals	Total Halogens	CLOSURE DELIVERABLES
	TW-1	9-21-95	1400	H ₂ O	1																			
	TW-2	9-21-95	1410		1																			
	TW-3	9-21-95	1430		1																			
	TW-4	9-21-95	1500		1																			
	TW-5	9-21-95	1530		1																			
	TW-6	9-21-95	1600	✓	1																			
SPECIAL INSTRUCTIONS/COMMENTS: Please Fax results by Tues. 12																								
Relinquished By	Signature	Printed Name	Firm	Time / Date																				
Received By	Signature	Printed Name	Firm	Time / Date																				
Relinquished By	Signature	Printed Name	Firm	Time / Date																				
Received By	Signature	Printed Name	Firm	Time / Date																				
Relinquished By	Signature	Printed Name	Firm	Time / Date																				
Received By	Signature	Printed Name	Firm	Time / Date																				

DFT 002382